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Ontario. Legislative Assembly

SESSIONAL PAPERS

VOL. LXIII.—PART V.

SECOND SESSION

OF THE

EIGHTEENTH LEGISLATURE

OF THE

PROVINCE OF ONTARIO

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1931

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A hydro-electric power development with present installed capacity of 50,000 horsepower, acquired by the Hydro-Electric Power Commission in its purchase, in 1930, of the properties of the Dominion Power and Transmission Company

TWENTY-THIRD ANNUAL REPORT

OF THE

HYDRO-ELECTRIC POWER COMMISSION

OF THE

PROVINCE OF ONTARIO

FOR THE YEAR ENDED OCTOBER 31st

1930

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO

ONTARIO

TORONTO
Printed and Published by Herbert H. Ball, Printer to the King's Most Excellent Majesty
1931

THE

HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Charles A. Magrath	*Chairman*
Hon. J. R. Cooke, M.L.A	*Commissioner*
C. Alfred Maguire	*Commissioner*
W. W. Pope	*Secretary*
F. A. Gaby, B.A.Sc., D.Sc	*Chief Engineer*

To His Honour THE HONOURABLE WILLIAM D. ROSS,
Lieutenant-Governor of Ontario.

MAY IT PLEASE YOUR HONOUR:

The undersigned has the honour to present to your Honour the Twenty-third Annual Report of The Hydro-Electric Power Commission of Ontario for the fiscal year ending October 31, 1930.

This Report covers all of the Commission's activities and also embodies the financial statements for the calendar year 1930, of the municipal electric utilities operating in conjunction with the various systems of the Commission and supplying electrical service to the citizens of the Province.

Dealing, as it does, with a multiplicity of activities relating to several electrical systems obtaining power from thirty-seven hydro-electrical plants operated by the Commission, supplemented by power purchased from other sources, and recording financial and other data relating to the individual local municipal electric utilities, the Annual Report presents a large amount of statistical information, much of which must, of necessity, be of a summary character.

The financial statements, the statistical data and the general information given, however, are so arranged and presented as to give a comprehensive survey of the Commission's operations. Not only does the Report record the progress made during the past year, but it gives, in addition, certain cumulative results for the various periods during which operation has been maintained in the respective municipalities.

At the end of the fiscal year the number of municipalities served in Ontario by the Commission was 668. This number included 26 cities, 94 towns, 251 villages and police villages and 297 townships. With the exception of 12 suburban sections of townships known as voted areas, the townships and 79 of the smaller villages are served as parts of 160 rural power districts.

During the year, the Commission purchased the properties of the Dominion Power and Transmission Company, Limited, for the sum of $21,000,000. The capacity of the generating plants and contracts for power purchased amount to 83,900 horsepower. Power is delivered to a large number of municipalities and industrial consumers in the territory extending from Port Colborne and St. Catharines to Hamilton, Brantford and Oakville.

Constructional Activities

The chief constructional activities of the Commission during the past year comprised the putting into service of the tenth unit at Queenston generating station on the Niagara river, the virtual completion of the Alexander power development on the Nipigon river, substantial progress of the Chats Falls development on the Ottawa river, the completion of the second 220,000-volt circuit on separate towers of the transmission line conveying Gatineau power from the Ottawa river to Leaside, Toronto, the addition of transformer capacity to many transforming and distributing stations, and the construction of no less than 1,890 additional miles of primary lines in rural power districts.

The tenth generator at Queenston came into service in July, 1930, and the temporary bulkheads and walls at the north end of the generating station were replaced by permanent structures. It is interesting to note that the hydraulic equipment and the general design of the plant are essentially the same for the tenth as for the first unit. No important advances have taken place in plant design for hydraulic units of the head and capacity of those at Queenston, and therefore the original portions of the plant, although in service for nine years, are not in any degree obsolete.

The virtual completion of the Alexander power development in October and the placing in service of the first generating unit, followed a season in which construction work was carried on very rapidly in order to take full advantage of the favourable weather during the summer months for the building of the main dam, which is a semi-hydraulic earth fill. This is the first dam of this type built by the Commission. The growth in load in the Thunder Bay system has been striking. It will be remembered that not many years ago doubt was expressed as to the possibility of the then partial development at Cameron Falls finding sufficient load to justify its construction. The load demands have been such as to necessitate the completion of the Cameron Falls development and the addition of the new Alexander development. Further studies and surveys are being made of the undeveloped head on the Nipigon river between Cameron Falls and lake Nipigon.

Rapid progress is being made in the design and construction of the new development at Chats Falls on the Ottawa river. When completed, 192,000 horsepower will be available at this site for the Commission's requirements.

The second link between the Gatineau river plants and the Niagara system at Leaside-Toronto has been made by the completion of the second 220,000-volt circuit. This double-circuit line now in operation, provides sufficient transmission capacity to deliver all the power required at present from the east, for the Niagara system. Additional equipment at Toronto-Leaside transformer station has been installed, including the third and fourth banks of 15,000-kv-a. transformers. A 220,000-volt transformer station is being constructed at Chats Falls in connection with the development at that site.

The regular growth in load necessitates each year a substantial increase in the transformer capacity in the various systems and the past year has been no exception. Seven 10,000-kv-a. transformers were purchased to replace 5,000-

kv-a. units in some of the 110,000-volt stations of the Niagara system. In the Georgian Bay system a 5,000-kv-a. frequency-changer set was installed at Hanover to permit further interchange of power between this and the Niagara system.

Operating Conditions

The customary high standard in the operation of the systems has been maintained throughout the year and the general service has been satisfactory and free from major failures of equipment. The extensive interconnection of transmission networks has continued to exert its beneficial effects in the economy of operation and continuity of service. Further progress has been made in the advantageous programme of interconnection and consolidation.

Notwithstanding the prevailing industrial depression, the total load supplied by the Commission with respect to the territory reported upon in the last year's Report, has increased. In addition, there is recorded for 1930 a further increase in the loads supplied as a result of the inclusion in this year's Report of the loads of the undertakings and companies purchased from the Dominion Power and Transmission Company, Limited, and the Bruce County service. It is appropriate to recall the fact that the 1929 increase in load over the previous year's total was exceptionally large.

During the past year the output of the Commission's generating plants in the central and eastern parts of the Province was curtailed due to deficient stream flow resulting from subnormal precipitation. However, as a result of the interconnections made during recent years and the provisions for purchased power no restrictions of service were necessary in the Georgian Bay and Eastern Ontario systems. In the Nipissing district of the Northern Ontario system where interconnection with other districts is not yet provided, some restriction of load was unavoidable during December, 1929, and January, 1930, until a thaw gave relief. In the Sudbury district a flood in June caused a brief restriction of service. With these relatively minor exceptions, ample supplies of power have been continuously available in all systems.

Cost of Electrical Service Furnished by the Commission

The function of the Commission is not only to use its best endeavours to provide for the people of Ontario an adequate and reliable supply of electrical energy, but also to ensure that the cost of that electrical energy to the consumers shall be the minimum consistent with the financial stability of the enterprise. The success that has been attained in the accomplishment of the latter object may be appreciated by a careful study of the statistical data relating to the supply of electrical energy to consumers as given in Statement "D" and the actual rates to consumers as presented in Statement "E" in conjunction with the various financial statements of the Report.

GROWTH IN LOAD

The following tabulation shows the growth in load in the various systems during the year.

DISTRIBUTION OF POWER TO SYSTEMS

20-MINUTE PEAK HORSEPOWER
SYSTEM COINCIDENT PEAKS

System	October 1929	December 1929	October 1930	December 1930
Niagara system	949,732	970,509	1,000,670	1,028,400
Dominion Power & Trans. system	....	....	58,579	61,528
Georgian Bay system	22,118	22,961	23,355	25,591
Eastern Ontario system*	82,299	90,800	88,678	93,560
Thunder Bay system	77,117	64,588	73,968	61,300
Northern Ontario system:				
Nipissing district	3,599	3,492	3,745	3,654
Sudbury district	10,657	11,394	12,935	10,724
Patricia district	....	....	1,582	1,521
Total	1,145,522	1,163,744	1,263,512	1,286,278

*"Eastern Ontario System" includes Central Ontario, St. Lawrence, Rideau, Ottawa and Madawaska districts.

FINANCIAL SUMMARIES

It will be observed that the financial statements embodied in this Report are presented in two main divisions, namely, a division—Section IX—which deals chiefly with the operations of the Commission in the generation, transformation and transmission of electrical energy to the co-operating municipalities; and a division—Section X—which deals with the various operations of the municipal electric utilities in the localized distribution of electrical energy to consumers. In Section IX, "Rural Operating" reports are also given, which summarize the results of the local distribution of rural electrical service by the Commission to the individual consumers in rural power districts. This work is performed by the Commission on behalf of the respective townships co-operating to provide rural service.

The cumulative results of the operation of the several systems of the Commission as set forth in this Report demonstrate a sound financial condition.

The total investment of the Hydro-Electric Power Commission of Ontario in power undertakings and hydro-electric railways is $260,593,779.36, and the investment of the municipalities in distributing systems and other assets is $99,054,262.47, making in power and hydro-electric railway undertakings a total investment of $359,648,041.83.

CAPITAL INVESTMENT

The following statement shows the capital invested in the respective systems and municipal undertakings:

Niagara system	$176,172,587.76
Dominion Power & Transmission Co. and Subsidiaries	21,489,434.83
Chats Falls development	2,137,230.18
Georgian Bay system	7,940,666.96
Eastern Ontario system (including Madawaska, Ottawa and Nipissing districts)	20,917,182.90
Thunder Bay system	17,645,796.31
Northern Ontario system—(Sudbury and Patricia districts)	3,297,543.10
Hydro-electric railways	7,340,565.05
Office and service buildings, construction plant, inventories, etc.	3,652,772.27
	$260,593,779.36
Municipalities' distributing systems and other assets (exclusive of $17,346,372.44 of municipal sinking fund equity in H.E.P.C. system)—all systems	99,054,262.47
	$359,648,041.83

REVENUE OF COMMISSION

The Commission collected from the municipal utilities and other customers, a total sum of $28,555,998.47. This sum was appropriated to meet all the necessary fixed charges and to provide for the expenses of operation and administration. After meeting all charges there was left a net surplus of $1,262,456.60.

The following statement summarizes the Commission's collections from municipal electric utilities and other power customers for the year and shows how the collections have been appropriated:

Revenue from municipal electric utilities and other power customers		$28,555,998.47
Appropriated as follows:		
Operation, maintenance, administration, interest and other current expenses	$19,772,039.08	
Reserves for sinking fund, renewals, contingencies and obsolescence provided in the year	7,521,502.79	
		27,293,541.87
Net surplus credited to municipalities under cost contracts		$1,262,456.60

NOTE.—The above figures do not include the revenue from the operation of the undertakings and companies which were acquired by the Commission from the Dominion Power and Transmission Company, Limited, as from January 1st, 1930. From this date the Commission has continued the operation thereof under the various company franchises, and a separate revenue and expense statement is shown for these.

RURAL ELECTRICAL SERVICE

During the past few years very substantial progress has been made in Ontario in the field of rural electrification. Practically all rural electrical service is now given through rural power districts which are operated directly by the Commission. There is now rather more than $12,665,000 invested in the rural power district systems established by the Commission. Towards this rural work the Ontario Government, pursuant to its policy of promoting the basic industry of agriculture, has, in the form of grants-in-aid, contributed 50 per cent of the costs of transmission lines and equipment, or some $6,300,000. A total of 6,726 miles of transmission lines have been constructed to date, of which 1,891 miles were constructed during the past year, a mileage which exceeds that constructed in any former year. There are now more than 46,000 customers supplied in the rural power districts.

RURAL POWER DISTRICTS—OPERATIONS FOR YEAR 1930

	Niagara system	Georgian Bay system	Eastern Ontario system	Totals
	$ c.	$ c.	$ c.	$ c.
Cost of power as provided to be paid under Power Commission Act	615,089.29	48,685.64	97,793.94	761,568.87
Cost of operation, maintenance and administration	408,419.77	23,704.25	66,035.16	498,159.18
Interest	186,962.86	14,705.71	31,997.23	233,665.80
Renewals	167,463.56	11,844.29	27,611.10	206,918.95
Obsolescence and contingencies	83,731.78	11,844.29	13,805.55	109,381.62
Sinking fund	44,370.01	3,368.40	7,390.49	55,128.90
Total expenses	1,506,037.27	114,152.58	244,633.47	1,864,823.32
Revenue from customers	1,628,018.20	109,933.71	260,299.70	1,998,251.61
Surplus	121,980.93	....	15,666.23	137,647.16
Deficit	....	4,218.87	....	4,218.87
Net surplus	....	....	....	133,428.29

MUNICIPAL ELECTRIC UTILITIES

The following is a summation of the year's operation of the local electric utilities conducted by municipalities receiving power under cost contracts with the Commission:

Total revenue collected by the municipal electric utilities		$30,241,820.19
Cost of power	$17,323,077.97	
Operation, maintenance and administration	5,394,779.96	
Debenture charges and interest	4,028,276.07	
Depreciation	1,574,991.68	
Total		28,341,125.68
Surplus		$1,900,694.51

RESERVES OF COMMISSION AND MUNICIPAL ELECTRIC UTILITIES

The total reserves of the Commission and the municipal electric utilities for sinking fund, renewals, contingencies and insurance purposes amount to $103,857,683.12, made up as follows:

Niagara system	$43,069,032.12
Georgian Bay system	1,889,781.64
Eastern Ontario system	4,123,718.36
Thunder Bay system	2,165,992.31
Northern Ontario system	10,582.50
Bonnechere storage	19,234.16
Service buildings and equipment	570,210.27
Hydro-electric railways	102,951.70
Insurance, workmen's compensation and staff pension insurance	2,993,346.59
Total reserves of the Commission	$54,944,849.65
Total reserves of municipal electric utilities	48,912,833.47
Total Commission and municipal reserves	$103,857,683.12

The consolidated balance sheet of the municipal electric utilities, on page 261, shows a total cash balance of $2,722,250.12, and bonds and other investments of $1,909,439.11. The total surplus in the municipal books now amounts to $34,452,790.22 in addition to depreciation and sundry other reserves aggregating $14,460,043.25.

The following is a brief summary of the principal operations relating to the several systems of the Commission:

Niagara System

The Niagara system embraces all the territory lying between Niagara Falls, Hamilton, and Toronto on the east, and Windsor, Sarnia, and Goderich on the west, served with electrical energy generated at plants on the Niagara river, supplemented with purchased power transmitted from the Gatineau river.

There has been a steady increase in the number of consumers in this district and also in the load supplied by the Commission to the municipalities. Power supplied to the Commission by the Gatineau Power Company is received by the Commission at the interprovincial boundary on the Ottawa river and is transmitted over two 220,000-volt, steel-tower transmission lines to Leaside. The construction of the second circuit, on separate steel towers, was completed during the year and put into operation in order to assist in carrying the heavy winter load. A third circuit line from Leaside to Chats Falls is under construction.

The arrangements already made will ensure for this system an adequate supply of power for a number of years ahead. In addition to the contracts for Gatineau river power, the Commission has entered into an agreement with the Chats Falls Power Company for the joint construction of a plant at Chats Falls on the Ottawa river having a capacity of 216,000 horsepower, the Commission is to purchase the Company's half of this power for a term of years. Power amounting to 250,000 horsepower developed on the St. Lawrence river will also be purchased from the Beauharnois Light, Heat and Power Company, and 125,000 horsepower to be delivered to the Commission as required from a plant on the Lievre River is contracted for from the James MacLaren Company, Limited.

The tenth unit in the Queenston generating plant, which was arranged for in 1928 was placed in operation on July 4, 1930, and is available to assist in taking care of the winter load for 1930-31.

The purchase of undertakings and companies from the Dominion Power and Transmission Company, Limited, has already been referred to. Since their acquisition by the Commission the operation of these properties has been continued by the same staff and on the same basis. The co-ordination of this system with the Niagara system will be carried out as may be found to be to the mutual advantage of both.

The total capital invested by the Commission on behalf of the co-operating municipalities of the Niagara system is $176,172,587.76, and the accumulated reserves for renewals, obsolescence, contingencies and sinking fund, aggregate

$43,069,032.12. This is exclusive of the undertakings and companies purchased from the Dominion Power and Transmission Company, Limited, for which separate statements of assets and liabilities, and operations are presented.

From the rural power districts of this system, which are directly operated by the Commission, the revenue received for the year from customers was $1,628,018.20, and the total cost of supplying the service was $1,506,037.27, leaving a balance of $121,980.93, which is placed to the credit of the districts in this system. The greater part of this surplus is returnable to the users in the form of reduced rates.

With respect to the electric utilities of the various municipalities of the Niagara system, the actual cost of power during the year was $827,049.01 less than the total amount collected at the interim rates, and this sum has been credited to the Municipal Utilities. The total net surplus for the year from the operation of the various municipal electric utilities was $1,215,442.02, after providing $1,342,130.60 for depreciation and $1,643,661.24 for the retirement of instalment and sinking fund debentures.

Nine municipal utilities had small deficits upon the year's operations, aggregating $1,886.09, whereas the total combined surplus of the other municipal electric utilities served by this system was $2,559,458.71. The total revenue of the municipal electric utilities served by this system was $24,831,168.71, an increase of $655,292.70.

Georgian Bay System

The Georgian Bay system comprises the area which includes the counties of Bruce, Grey, Dufferin, and Simcoe, and the northern portions of Huron, Wellington, and Ontario, also a large portion of the district of Muskoka, all of which areas are adjacent to Georgian Bay.

Electrical energy is obtained from two developments on the Severn river, one on the Beaver river, and three on the Muskoka river, also from two frequency changer stations tied in with the Niagara system. The total capacity of this system exceeds 30,000 horsepower and all of the developments are tied together through a network of transmission lines. The 5,000-kv-a. frequency-changer set situated at Hanover was completed and placed in operation during the year. Power is delivered from the Niagara system at Kitchener over a 110,000-volt transmission line.

During the year, negotiations were completed with the Public Utilities Consolidated Corporation of Minneapolis, Minnesota, for the purchase of what is known as the "Foshay" interests in Bruce county, covering the Saugeen Electric Light and Power Company and the Walkerton Electric Light and Power Company. The Commission on behalf of the municipalities has assumed control and they now form part of the Georgian Bay system.

The village of Windermere entered into an agreement for a supply of power on the standard cost basis.

Notwithstanding the prevailing industrial depression, there was this year a considerable increase in the power sold throughout this system, due in part to a marked expansion in the rural districts.

The total capital invested by the Commission on behalf of the co-operating municipalities of the Georgian Bay sytem is $7,940,666.96, and the accumulated reserves for renewals, obsolescence, contingencies and sinking fund, aggregate $1,889,476.03.

From the rural power districts of this system, which are directly operated by the Commission, the revenue received for the year from customers was $109,933.71, and the total cost of supplying the service was $114,152.58, leaving a balance of $4,218.87, which has been charged to the districts in this system.

With respect to the electric utilities of the various municipalities of the Georgian Bay system, the actual cost of power during the year was $20,805.38 less than the total amount collected at the interim rates, and this has been credited to the municipal utilities. The total net surplus for the year from the operation of the various municipal electric utilities was $40,419.66, after providing $54,452.40 for depreciation and $54,212.34 for the retirement of instalment and sinking fund debentures. Twelve municipal utilities had small deficits upon the year's operations, aggregating $13,337.99, whereas the total combined surplus of the other electric utilities served by this system was $53,757.65. The total revenue of the municipal electric utilities served by this system was $1,051,101.54, an increase of $6,465.06.

Eastern Ontario System

This system now serves the whole of that portion of Ontario east of the areas served by the Georgian Bay and Niagara systems. Consolidation of the Central Ontario and Trent systems with the St. Lawrence, Rideau and Ottawa systems, making up the Eastern Ontario system, was undertaken because of the necessary interchange of power supply and for other reasons which made it impracticable longer to operate these systems separately; final details for consolidation were completed during the year. The properties of the Galetta Electric Light & Power Company, and the Calabogie Power Company, known as the Madawaska system, have also been added to form part of this system.

During the year the Commission completed the purchase of the Beach Rural Electric System lines serving rural customers in the townships of Matilda, Williamsburg, Mountain, Winchester and South Gower, and with this purchase agreement an arrangement was made for the purchase of a supply of 500 horsepower from the Beach Estate at Iroquois, which power is consolidated with the Eastern Ontario system supplies and is used to supply the rural lines purchased from the Beach Rural Electric System, Limited.

The Commission disposed of the local distribution systems, forming part of the Central Ontario district properties in the towns of Brighton, Port Hope and Napanee. These properties were purchased by the respective municipalities and agreements were entered into for a supply of power on the standard cost basis. The municipalities of Madoc and Stirling whose fixed rate contracts for power expired December 31, 1929, also entered into agreements for power supply on the standard cost basis. The village of Cardinal also entered into an agreement for a supply of power from this system during the year.

The Ottawa district embraces the city of Ottawa, the village of Richmond, and the Nepean rural power district. The city of Ottawa "Hydro" system has continued the steady growth experienced in other years. There has also been much expansion in the rural district. During the year the city has received an augmented supply of power from the Commission through the new high-tension station constructed jointly by the Provincial Commission and the Ottawa Hydro Commission. This power is taken at 110,000 volts from the supply made available under the contract with the Gatineau Power Company.

Reflecting the general industrial depression the load requirements of the Eastern Ontario system were slightly lower than was anticipated. The normal yearly increment of 6,000 horsepower under the contract with the Gatineau Power Company, together with power generated by the Commission has provided ample power for all the customers of this system.

The total capital invested by the Commission on behalf of the co-operating municipalities of the Eastern Ontario system is $20,917,182.90, and the accumulated reserves for renewals, obsolescence, contingencies and sinking fund aggregate $4,123,718.36.

From the rural power districts of this system, which are directly operated by the Commission, the revenue received for the year from customers was $260,299.70, and the total cost of supplying the service was $244,633.47, leaving a balance of $15,666.23, which is placed to the credit of the districts in this system. The greater part of this surplus is returnable to the users in the form of reduced rates.

With respect to the electric utilities of the various municipalities of the Eastern Ontario system, the actual cost of power during the year was $58,783.30 less than the total amount collected at the interim rates and this has been credited to the municipal utilities. The total net surplus for the year from the operation of the various municipal electric utiltities was $373,651.95, after providing $143,712.83 for depreciation and $108,377.27 for the retirement of instalment and sinking fund debentures. Three municipal utilities had small deficits upon the year's operations, aggregating $1,727.35, whereas the total combined surplus of the other electric utilities served by this system was $375,379.30. The total revenue of the municipal electric utilities served by this system was $2,887,135.45, an increase of $385,102.53.

Thunder Bay System

The Thunder Bay system comprises that portion of the district of Thunder Bay adjacent to Lake Superior, and includes the lake-head cities of Port Arthur and Fort William, and the village of Nipigon. In addition to supplying electrical service in the three municipalities, power is supplied chiefly for grain elevators and pulp and paper mills. Due to industrial depression which has largely affected these two industries this system has not made as good a showing as it would have done had trade conditions been normal. In spite of this handicap, however, the showing for the year has been satisfactory.

The first unit of the new Alexander development, situated one and one-half miles below Cameron Falls, was placed in operation for the first time during the year, and the entire development is now about 98 per cent complete. As soon as the other two units are completed and placed in operation an additional 54,000 horsepower will be made available, which, together with the Cameron

Falls development, will make available a total capacity of 129,000 horsepower for this system.

The Commission has, in the Thunder Bay system, a total investment of $17,645,796.31, and accumulated reserves for renewals, contingencies, and sinking fund aggregate $2,165,992.31.

The total revenue collected by the Commission for power provided for the municipalities and sold to private companies connected to this system was $1,420,236.89, which exceeded the cost of power supplied by $2,665.87, which sum has been credited to the three municipalities operating under cost contracts in this district. The total revenue of the municipal electric utilities in this system was $1,472,414.49. The three municipalities served by this system operated with a net surplus of $271,180.88, after providing depreciation to the extent of $34,695.85 and $21,810.77 for the retirement of debentures.

Northern Ontario System

In this system are grouped three districts, at present independent, which serve portions of northern Ontario. The Nipissing district, formerly known as the Nipissing system, has been operated by the Commission for a number of years; the Sudbury district was formerly served by the Wahnapitae Power Company recently acquired by the Commission, and the Patricia district is a new district recently established.

Nipissing District

This district includes the city of North Bay, the town of Powassan, and the villages of Callander and Nipissing, all of which lie immediately east of lake Nipissing. Power is obtained from three hydro-electric developments on the South river, namely, Nipissing, Bingham Chute and Elliott Chute.

Sudbury District

This district comprises the southern portions of the district of Algoma, Sudbury, and Nipissing, and is at present supplied with power from three developments on the Wahnapitae river, recently purchased by the Commission from the Wahnapitae Power Company.

A special investigation was made covering the delivery of a large block of power to this district for the mining industry, and a contract was finally executed between the Ontario Power Service Corporation and the Commission, covering a supply of 100,000 horsepower from a development at Abitibi Canyon on the Abitibi river about fifty miles north of Cochrane. The first delivery of this power will be made during the latter part of next year.

Patricia District

Power is served from a development at Ear Falls at the foot of Lac Seul, the present capacity of which is 5,000 horsepower. Power was delivered for the first time during the year to The Howey Gold Mines Limited, which is the only customer in this district at the present time, but a large block of power is available for any mining or other industry desiring same, and it is expected that this development will prove to be of great service to the district.

The Annual Report

The Table of Contents, pages xxi and xxii, conveys a good understanding of the scope of the matters dealt with in the Report, to which there is also a comprehensive Index. To those not conversant with the Commission's Reports the following notes will be useful.

In Section II, pages 6 to 55, dealing with the Operation of the Systems, are a number of interesting diagrams showing, graphically, the increase in the loads on the various systems. Tables are also presented showing the amounts of power taken by the various municipalities during the past three years.

The rural distribution work of the Commission has proved of widespread interest and special reference to this is made in Section III, on pages 64 to 79. The power distributed to rural districts is, and possibly must always be, but a relatively small proportion of the power distributed by the Commission. The supplying of electrical service in rural areas, and especially on the farm, has, however, been of great economic benefit to Ontario. The Provincial Government grants-in-aid to this work have been of value to agricultural activities, and have assisted the Commission to extend transmission lines to many areas.

In Section IV, V and VI will be found information respecting progress of work on new power developments and on transmission system extensions, together with photographic illustrations.

About three-fifths of the Report is devoted to statistical, financial data which are presented in two Sections, IX and X.

Section IX presents in summary form the financial statements relating to the operations of the Commission chiefly in the generation, transformation and transmission of electrical energy to the co-operating municipalities. It is introduced by an important explanatory statement which appears on page 137 to 141, to which special reference should be made.

Section X presents in summary form the financial statements relating to the operations of the municipalities in the localized distribution of electrical energy to consumers. It also contains details of the costs of electrical energy to consumers in the various municipalities and tabular statements of the rates in force which have produced these costs. An explanation of the various tables and statements is given at the commencement of this Section on pages 255-257; and a special introduction to Statement "D," which relates to the cost of electrical service in Ontario, together with a diagram, appears on pages 366 to 369.

In its Annual Reports the Commission aims to present a comprehensive statement respecting the activities of the whole undertaking under its administration. Explanatory statements descriptive of the operations of the Commission in various branches of its work are suitably placed throughout the Report in order that the citizens of the Province may be kept fully informed upon the working-out of the Commission's policies.

* * *

In conclusion, I should like to refer to the retirement from the Chairmanship of the Commission of Mr. Charles A. Magrath.

As may be recalled, Mr. Magrath was appointed to the Chairmanship on September 12, 1925, and his retirement became effective on February 6, 1931.

During his tenure of office, Mr. Magrath in devoting himself to the general administrative work of the Commission gave special attention to strengthening the Commission's position with respect to its financial reserves, but perhaps the outstanding effort which he put forth was in connection with the provision for future supplies of electrical energy to meet the needs of Ontario municipalities. All sources of possible supply were reviewed. The production of additional hydro-electric power from water powers owned by the Province was most carefully considered and furthered wherever economically possible; definite attention was given to the desirability or otherwise of developing steam-electric power, and the possibilities of purchasing power in large blocks to be supplied from sites owned or controlled by private organizations were examined.

There are two main sources of power from international waters in which the Province possesses a definite but not a sole interest—the Niagara and the St. Lawrence rivers, and there is also the inter-provincial Ottawa river. Mr. Magrath's experience in connection with matters before the International Joint Commission acquainted him with the fact that programmes for the development or utilization of international waters have sometimes had to proceed much more slowly than might superficially have been expected from preliminary favourable circumstances. To the solving of problems arising in connection with efforts to expedite development of these power sources, Mr. Magrath brought special experience.

For more than ten years the problem of the development of the St. Lawrence river for navigation and power has been the subject of special investigation and effort by the two Federal Governments concerned, but as yet no plan of development has been finally determined upon and, consequently, the Commission has never received sufficient authority to enable it to proceed with the development of Ontario's share of the St. Lawrence river power. Moreover, the Commission had to reckon with the fact that the evidence of engineers has been that from five to eight years would be required to complete such a development as the St. Lawrence. Consequently, even were the St. Lawrence development commenced, constructional work and preliminaries incident thereto might occupy up to eight years before the Hydro-Electric Power Commission could reasonably hope to obtain its full share of St. Lawrence power, and therefore no hope for an early supply of power from this source could be entertained.

With respect to power at Niagara: In 1926, a Special International Niagara Board was appointed to determine how the erosion of Niagara Falls could be arrested, how the preservation of their scenic beauty could best be effected, and what, if any, waters additional to those allotted under the Boundary Waters Treaty of 1909-10 could be diverted either temporarily or permanently for further power development. Consequent upon the Report which this Board made, a proposed Treaty was drawn up by representatives from both the countries concerned providing for an additional diversion of water for power from Niagara, but the proposed measure was rejected by the United States

Senate in January, 1931. In view of the uncertainty respecting the outcome of these negotiations, the Commission was not justified in counting upon Niagara waters as a source of additional power supply in the near future.

With regard to the Ottawa river, until recently, the Hydro-Electric Power Commission was unable to proceed in Ontario because claims made under the Charter of the Georgian Bay Canal Company were not definitely cleared away until this Charter was terminated by Federal action in 1927.

Confronted with such circumstances and restrictions—the bearing of which upon the Commission's work was appreciated by no one more clearly than by Mr. Magrath—the Commission believed that the best means of providing adequate power supplies for the immediate future consisted in purchasing power in large blocks at the best prices possible. After comprehensive survey of the various possibilities, the Commission in 1926 and subsequent years consummated several contracts for purchased power. These purchases consist of 260,000 horsepower from the Gatineau Power Company; a further contract covering an additional 60,000 horsepower also from the Gatineau; 250,000 horsepower from the Beauharnois development being made in Quebec on the St. Lawrence river; 125,000 horsepower from the Maclaren development on the Lievre river, also in Quebec; 96,000 horsepower from the Quebec portion of the Chats Falls development on the Ottawa river; and 100,000 horsepower to be developed at the Abitibi Canyon on the Abitibi river in Ontario. The Commission will also have 96,000 horsepower from its own portion of the development at Chats Falls. These provisions for power, together with the output of the Commission's existing generating plants, will aggregate in all some 2,000,000 horsepower by 1937.

Throughout the important considerations involved in these transactions, Mr. Magrath's wide business experience, his foresight, and his care to ensure not only that the needs of the municipalities of Ontario were provided for, but also that the interests of the municipalities were safeguarded, were features which carried forward the Commission's policy under his Chairmanship, and will be remembered by his colleagues with gratitude.

The work covered by this Report was performed under the Chairmanship of Mr. Magrath and it affords me much pleasure on behalf of my fellow-commissioner, Mr. Maguire, and on my own behalf to bear testimony here to the zealous and careful manner in which Mr. Magrath devoted himself to his public trust and to testify also to the sympathetic and painstaking manner in which he co-operated with his colleagues to deal satisfactorily with all issues which concerned the Commission's welfare.

Respectfully submitted,

J. R. Cooke,
Acting Chairman

TORONTO ONTARIO, March 31st, 1931.

HON. J. R. COOKE, M.L.A.,
Acting Chairman, The Hydro-Electric Power Commission of Ontario,
Toronto, Ontario.

SIR,—I have the honour to transmit herewith the Twenty-third Annual Report of The Hydro-Electric Power Commission of Ontario for the fiscal year ended October 31st, 1930.

I have the honour to be,
Sir,
Your obedient servant,

W. W. POPE,
Secretary

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TWENTY-THIRD ANNUAL REPORT

OF THE

Hydro-Electric Power Commission of Ontario

SECTION I

LEGAL

At the 1930 session of the Legislative Assembly of the Province of Ontario, seven Acts relating to the work of The Hydro-Electric Power Commission of Ontario were passed. These are reproduced in full in Appendix I to this report. The short titles to the said Acts are as follows:

The Power Commission Act, 1930, Chapter 12.
The Central Ontario Power Act, 1930, Chapter 13.
The Rural Power District Loans Act, 1930, Chapter 14.
The Rural Power District Service Charge Act, 1930, Chapter 15.
The Power Commission and Companies Transfer Act, 1930, Chapter 16.
The Sandwich, Windsor and Amherstburg Railway Act, 1930, Chapter 17.
The Windsor, Essex and Lake Shore Railway Act, 1930, Chapter 18.

The agreements between The Hydro-Electric Power Commission of Ontario and the municipalities and corporations mentioned in the list hereunder given were approved by Order-in-Council dated the 19th day of November, 1930.

CITIES	
Belleville	Aug. 29, 1929.
Oshawa	Aug. 19, 1929.
Ottawa	Oct. 1, 1928.

TOWNS	
Napanee	Feb. 3, 1930.
Port Hope	Jan. 27, 1930.
Southampton	Oct. 23, 1929.
Whitby	Feb. 22, 1927.

VILLAGES	
Brighton	Feb. 11, 1930.
Cardinal	Nov. 15, 1929.
Madoc	Feb. 5, 1930.
Stirling	Jan. 13, 1930.
Windermere	Nov. 16, 1929.

TOWNSHIPS	
Adjala	June 1, 1929.
Admaston	Mar. 22, 1930.
Ameliasburg	May 6, 1929.
Arthur	Aug. 11, 1930.
Ashfield	June 7, 1930.
Bastard and Burgess South	April 13, 1929.
Bastard and Burgess South	Dec. 16, 1929.
Cambridge	April 7, 1930.
Cartwright	Aug. 8, 1929.
Cramahe	May 2, 1930.
Crosby South	Oct. 29, 1928.
Crosby South	May 2, 1930.
Crowland	Mar. 28, 1929.
Cumberland	April 7, 1930.
Dummer	June 23, 1930.
Dunn	May 15, 1930.
East Luther	Aug. 10, 1929.
East Whitby	May 6, 1929.
East Whitby	Aug. 2, 1930.
East Williams	Sept. 15, 1930.
East Zorra	Mar. 11, 1929.
Egremont	Feb. 4, 1928.
Emily	Sept. 2, 1930.
Essa	Aug. 5, 1929.
Etobicoke	Mar. 25, 1929.
Fenelon	May 12, 1930.

TOWNSHIPS—Continued

Finch	Nov. 5, 1928.
Fitzroy	April 26, 1930.
Front of Escott	April 1, 1929.
Front of Leeds and Lansdowne	April 1, 1929.
Front of Leeds and Lansdowne	Nov. 4, 1929.
Front of Yonge	April 1, 1929.
Glenelg	April 12, 1930.
Goderich	Dec. 11, 1928.
Gosfield South	Sept. 14, 1929.
Grey	May 11, 1929.
Hamilton	July 9, 1930.
Hibbert	Aug. 19, 1929.
Hillier	Oct. 3, 1929.
Horton	April 10, 1930.
Houghton	April 9, 1930.
Howick	Mar. 4, 1929.
Hungerford	June 11, 1930.
Huntingdon	May 16, 1930'
Huron	May 26, 1930'
Kitley	Nov. 29, 1928.
Lochiel	Aug. 26, 1929.
Loughborough	April 17, 1929.
Manvers	May 30, 1929.
Manvers	Feb. 5, 1930.
Matilda	May 1, 1930.
McKillop	May 25, 1929.
Medonte	Oct. 15, 1929.
Medonte	July 4, 1930.
Morris	July 15, 1929.
Morrison	April 29, 1929.
North Walsingham	Nov. 30, 1929.
Orillia	July 2, 1929.
Osnabruck	April 2, 1929.
Osprey	Sept. 8, 1930.
Oxford	June 24, 1929.
Pittsburg	June 3, 1929.
Plantagenet North	Aug. 23, 1929.
Plantagenet South	Aug. 23, 1929.
Portland	Nov. 4, 1929.
Rainham	April 7, 1930.
Rear of Escott and Yonge	Nov. 17, 1928.
Rear of Leeds and Lansdowne	Aug. 1, 1929.
Rear of Leeds and Lansdowne	Jan. 18, 1930.
South Dumfries	Nov. 14, 1929.
South Elmsley	June 25, 1930.
South Grimsby	Feb. 11, 1929.
Stanley	Dec. 11, 1928.
Stephenson	Mar. 15, 1930.
Thorold	Mar. 3, 1930.
Tiny	May 13, 1930.
Tossorontio	Aug. 16, 1929.
Tossorontio	Nov. 18, 1929.
Trafalgar	Nov. 30, 1928.
Tuckersmith	June 12, 1929.
Tyendinaga	Dec. 15, 1928.
Walpole	April 10, 1930.
West Ferris	Mar. 9, 1929.
Yarmouth	July 15, 1929.
United Townships of Belmont and Methuen	May 25, 1929.

CORPORATIONS

American Cyanamid Company	May 30, 1928.
American Cyanamid Company	Oct. 25, 1928.
American Cyanamid Company	Dec. 12, 1928.
American Cyanamid Company	July 1, 1930.
Atlas Construction Company, Ltd	Dec. 31, 1929.
Beaverwood Fibre Company, Ltd	Nov. 30, 1929.
Canadian Salt Company, Ltd	Feb. 29, 1928.
The Cooksville Company, Ltd	April 1, 1929.
Denison Tile Company, Ltd	Sept. 1, 1928.
Department of Railways and Canals (re Golops Canal)	April 22, 1930.
Department of Railways and Canals (Prescott Elevator)	Sept. 8, 1930.
Dominion Sewer Pipe and Clay Industries, Ltd	June 1, 1928.
Dominion Woollens & Worsteds, Ltd	May 1, 1929.
Dufferin Construction Company, Ltd	July 17, 1928.
The Electro Metallurgical Company of Canada, Ltd	Nov. 7, 1928.
The Electro Metallurgical Company of Canada, Ltd	May 29, 1929.
Exolon Company, Inc	April 1, 1930.
The Goodyear Tire & Rubber Company of Canada, Ltd	Mar. 1, 1929.
The Hamilton Cataract Power, Light and Traction Company, Ltd	Dec. 13, 1928.
Howard Smith Paper Mills, Ltd	Nov. 1, 1928.
Howey Gold Mines, Ltd	April 25, 1929.
International Nickel Company, Ltd	June 19, 1930.
Fred Lepofsky and Harry Lepofsky (Streetsville Creamery)	Mar. 1, 1929.
Lionite Abrasives, Ltd	Feb. 3, 1930.
Milton Brick, Ltd	Feb. 1, 1929.
Norton Company	Sept. 1, 1928.
Norton Company	May 25, 1929.
Norton Company	May 5, 1930.
Ontario Paper Company, Ltd	May 1, 1930.
Oshawa Railway	Oct. 1, 1929.
Port Credit Brick, Ltd	Mar. 18, 1930.
J. P. Porter & Sons	April 1, 1930.
Republic Carbon Company, Inc	Aug. 1, 1929.
St. Mary's Cement Co., Ltd	June 17, 1930.

Corporations—Continued

Strathcona Paper Company, Ltd.	Oct. 31, 1928.
Strathcona Paper Company, Ltd.	Nov. 1, 1929.
Union Natural Gas Company of Canada, Ltd.	Sept. 1, 1929.
Union Natural Gas Company of Canada, Ltd.	May 1, 1930.

Right-of-Way

Rural Power Lines

During the year extensive construction work has been carried on in different parts of the Province on rural power lines. The principal rural power districts in which work of this nature has been proceeded with are as follows: Apple Hill, Alliston, Alexandria, Aylmer, Ayr, Bond Lake, Belleville, Brockville, Baden, Barrie, Beamsville, Beaumaris, Bowmanville, Brigden, Bothwell, Brighton, Brant, Clinton, Caledonia, Cobourg, Chesterville, Colborne, Creemore, Dorchester, Drumbo, Elora, Elmvale, Galt, Hawkestone, Innisfil, Ingersoll, Kingsville, Kingston, London, Maxville, Martintown, Mariposa, Millbrook, Merlin, Nepean, Napanee, Newcastle, Newmarket, Oshawa, Peterborough, Port Hope, Prescott, Pickering, Port Perry, Ridgetown, St. Marys, St. Jacobs Smiths Falls, Stirling, Stratford, Sparrow Lake, Simcoe, Strathroy, Trenton, Thamesville, Thornton, Uxbridge, Utterson, Welland, Woodbridge, Wellington, Waterford, Walsingham, Woodstock.

In this connection it was necessary to secure right-of-way in many cases where the lines could not be located on public roads, as well as to settle for tree-trimming rights in a number of cases, and for claims for damages to fences and crops where it was found expedient to locate the lines on private property. Arrangements also had to be made with the Department of Public Highways, as well as county and municipal authorities having control of the various roads upon which this work was carried on.

Low-Tension Lines

The number of low-tension lines under construction during the year exceeded that of the previous year by nearly one hundred per cent. The construction of these lines also rendered it necessary to secure the usual tree-trimming rights, pole rights, settlements for anchors, and damage claims. The following list shows the various lines on which work of this nature was carried on during the year:

Todmorden Junction to Brinlock.
Guelph to Georgetown.
Hanover Station to Walkerton Junction.
Tara to Southampton.
Saugeen Junction to Derby Mills Junction.
Gravenhurst Junction to Kilworthy Junction.
High Falls to Balderson Station.
Smiths Falls to Rideau Junction.
Rideau Junction to Merrickville Station.
Williamsburg to Winchester.
Brockville to Athens.
Cornwall Junction to Winchester Junction.
Beaumaris to Huntsville.
Dundas to Caledonia.
Guelph to Ontario Agricultural College Junction.
Preston to Kitchener.
Kitchener to Waterloo.
Kitchener to Baden Junction.
Woodstock to London.
Woodstock to Dufferin Construction Company, Innerkip.
Woodstock to Norwich.
St. Thomas to St. Clair.
Brant to Brantford.
Essex to Maidstone.
Essex to Canada Salt Company Junction.
York to Weston.
Wiltshire to Weston.
Wabash Junction to Thorold.
McCabe Avenue Junction to Crowland Junction.
Lucan to Exeter.
Exeter to Kent.
Mount Brydges Junction to Strathroy.
Dorchester Junction to Asylum Junction
Elginfield Junction to Lucan.
Reformatory Junction to Rockwood Junction.
Acton to Georgetown.
St. Jacobs Junction to Elmira.

Low Tension Lines—Continued

Dublin to Seaforth Junction.
Sebringville Junction to Milverton Junction.
Aylmer Junction to Aylmer Station.
Paris Junction to Paris Station.
Streetsville Junction to Milton Station.
Bothwell Junction to Ridgetown Junction.
Bothwell Junction to Wallaceburg Junction.
Maidstone to Essex Junction.
Amherstburg Junction to Harrow Station.
Cottam Junction to Leamington.
Woodbridge Station to Kleinburg Station.
Watford Station to Alvinston Station.
Sarnia Junction to Forest Junction.
Calabogie to Burnstown.
Arnprior to Galetta.
Waubaushene to Midland.
Fergusonvale Junction to Camp Borden Junction.
Bingham Chute Junction to Callendar Station.

Substation Sites

Land required for sites for the erection of new substations has been purchased in the following cases: Consecon, Tara, Hanover frequency changer station, Woodbridge, Painswick, Kitchener, Utterson, Cardinal, Kingsville, Fergusonvale, Hastings, Napanee, addition to Leaside station.

Sites for Operators' Residences

Purchases of the necessary land have been completed in the following cases: Trout Lake, Nipigon, Cloyne, Hanover, White.

Flooding Rights

The purchase of lands to be flooded in connection with power development at Trethewey Falls on the Muskoka river, and at Elliott Chute on the South river, has been practically completed. Similar purchases have been made of lands adjacent to the Ottawa river, in connection with the development at Chats Falls, and also on lake Wanapitei in connection with the development at that point. In connection with this last-mentioned development it was necessary to secure settlements for a substantial number of damage claims which had been incurred in connection with the raising of the water in the lake. With one or two exceptions these claims have been disposed of.

Gatineau High-Tension Lines

The acquisition of tower easements for the second circuit of the Gatineau power lines has, with the exception of a few outstanding claims, been completed.

The right-of-way for the third Gatineau line westerly from the Ottawa river to a point near Cooper in Hastings county has been nearly all secured. The territory through which this line passes is largely bush and rough land. The right-of-way department has had charge of the clearing of the right-of-way for this line, and this work also has been nearly finished. The work of clearing was mostly let to residents along the line, it having been found that better service is secured in this way.

The third and fourth circuits of the Gatineau lines are now being laid out, and in the township of Scarborough a substantial portion of the necessary right-of-way has been secured. The work of securing the remainder of this right-of-way will be proceeded with immediately upon the completion of the survey work.

Beauharnois High-Tension Line

A large amount of preliminary work has been performed in connection with the layout of this line, and in this case also the work of securing easements for the right-of-way will be proceeded with upon completion of the surveys.

Hanover-Kitchener High-Tension Line

The work of securing the right-of-way for this line has been completed.

General

An increased number of leases for offices for rural power districts and electrical inspection work have been made with the owners of the various properties concerned. A number of licenses have been obtained from the Dominion and Provincial Governments for the right to erect transmission lines across navigable waters.

A number of parcels of property no longer required by the Commission have been disposed of.

The continued activity of the Department of Public Highways in widening and otherwise improving many of the highways throughout the Province has necessitated the relocation of many of the Commission's lines previously placed on these roads. In all cases satisfactory arrangements have been made with the Highways Department. Similar comments also apply to many of what are known as county roads throughout the Province which are under the control of the various counties.

The widening of the provincial highway west of the Humber river leading into the city of Toronto rendered it necessary to transfer to the Highways Department a considerable strip of land owned by the Commission in that locality.

SECTION II

OPERATION OF THE SYSTEMS

The outstanding feature of the year's operation was the continuation of the load at higher figures than ever before, in spite of the general industrial depression.

The growth of load during the fiscal year 1928-29 was abnormally large, as shown in last year's Report, amounting to 23 per cent. on the total load, which is equivalent to the normal increase for two years instead of one. That increase appeared to be due to the great industrial activity prevailing at that time and to a wide-spread condition of prosperity throughout the Province. The use of electricity for power in factories and for lighting and domestic services in private homes throughout the greater part of the Province undoubtedly reflects business conditions, and records of the consumption of electricity are used generally by statisticians as an index for this purpose. While the heavy consumption of electricity during the year 1928-29 appeared to be the natural result of the prosperous conditions then prevailing, it is remarkable that during the past year of 1929-30, which has been regarded generally as one of industrial depression, the consumption of electricity remained at the high figure set in the previous year, with a further slight increase.

The only evident effect of the depression on the load appears in the small ratio of the increase in the load this year as compared with ratios for previous years. The effect of the depression was most marked in the Niagara system, apparently due to a decrease in the power used by large chemical and metallurgical plants near Niagara Falls. These plants, as noted in last year's Report, were responsible for a part of the abnormal increase in the total load during 1928-29, and decrease in the load of these plants had the opposite effect on the present year's figures. While the maximum load on the Niagara system was slightly greater during 1929-30 than during the previous year, the total number of kilowatt-hours shows a slight decrease, amounting to one-half-of-one per cent. (Export power is excluded in all cases.) On all other systems there was an increase in both the maximum load and the total kilowatt-hours used. On the Georgian Bay system and in the Ottawa district this increase of load approached the figures for an ordinary year, but on the other systems the rate of growth was less than the average.

The lack of sufficient water reduced the output of some of the Commission's plants, the rainfall during summer months being much below normal in parts of the Province, and 1928-29 also having been a dry season the storage waters and stream flow were greatly reduced during the latter part of the year 1929 and during the summer of 1930. In the section of this Report dealing with water conditions in the Eastern Ontario system a graph is given showing precipitation in the central part of the Province according to reports from several stations of the Government Meteorological department, and a similar graph for 1928-29 appeared in last year's Report. From these it will be noted how far below normal the precipitation has been during the summer months of the past two years. The effect of the dry summer season was felt most severely in the Nipissing district where restrictions had to be placed on the load toward the end of 1929, and in the Georgian Bay system where power had to be purchased from steam plants and an increased supply transferred from the Niagara system. The effect of the dry season was less in the Central Ontario and Rideau districts, and because of power available under the Gatineau contract no difficulty was experienced in supplying the loads. Had power not been available under the Gatineau contract, load restrictions would have been necessary in the Central Ontario district during November and December, 1929, and again in September and October, 1930. In the Madawaska district no load restrictions have been necessary, although no outside source of supply was available, but the storage waters have been seriously depleted so that at the end of the fiscal year it appears probable power will have to be brought into the district from some outside source. The Thunder Bay System plants, the plant at Ear Falls, and the plants in the Sudbury district were not similarly affected, the distribution of rain being somewhat different in these districts and the plants less directly dependent on the precipitation. On the Thunder Bay system no load restrictions were necessary on account of the large storage area in lake Nipigon, but care had to be used in regulating the flow to avoid any wastage, the storage being reduced to the lowest point in some years. In the Sudbury district one of the generating stations suffered some damage through excessive rainfall and flooding in June. The plants on the Niagara river are independent of rainfall, the restrictions on the water used there arising out of international treaties. However, advantage was taken of the power available under the Gatineau contract to shut down generators and carry out an extensive program of maintenance work, such as the concreting of the third pipe line at the Ontario Power plant. This resulted in some reduction of the total kilowatt-hours generated during the year, the peak load carried being about the same.

In the Nipissing district the completion of the Elliott Chute generating station in the fall of 1929, with a normal capacity of 2,400 horsepower, prevented the shortage of power from becoming as severe as would otherwise have been the case. There are now three hydro-electric generating plants on this system with a normal capacity of 5,900 horsepower, as compared with one hydro-electric plant of 2,300 horsepower when the system was taken over by the Commission. The normal capacity of the three plants, 5,900 horsepower, is ample to carry the load, which amounted to 3,820 horsepower, but as all three plants are dependent on the flow in the South river, any abnormal reduction of flow reduces the actual capacity available at all plants. This is what occurred at the beginning of the past fiscal year of 1929-30, due to the abnormally dry summer. In order to safeguard the system against such temporary load restrictions in future, arrangements are being made for a supply of power from an outside source which will not be dependent on the flow in the South river.

On the Georgian Bay system the construction of a frequency-changer station at Hanover, with a rated capacity of 5,000 kw. at 80 per cent. power factor, has made possible the transfer of over 7,000 horsepower from the Niagara system, thus affording protection to the Georgian Bay system against shortage of power due to abnormally dry seasons in that district. As the number of plants on the Georgian Bay system is larger than in the Nipissing district, and as they are situated on different rivers and supplied from independent storage areas, they are not as likely to be all affected at the same time by any shortage of water.

The acquisition of the plants and lines in Bruce county, following bankruptcy of the previous owners, added some new territory and three small hydro-electric generating plants to the Georgian Bay system. Due to lack of meters, the output of these plants is not included in the table of power generated, and the load of the municipalities supplied is not included in the figures for the Georgian Bay system.

The two plants at Bala also lack meters, so that figures for their output is not included in the table published herein. The totals are incomplete to this extent, but the percentage of error on the total is small, and load conditions are better than shown to this slight extent. Arrangements are being made to obtain more complete measurement of the load generated at these smaller plants.

Forestry Division

A new section has been added to the Operating department, known as the Forestry division, with the object of preserving trees along public highways where they approach or come in contact with the power lines of the Commission. Maintenance of an uninterrupted power supply necessitates the branches being kept pruned back from the wires, and the Commission has always endeavored to carry out such work with a minimum of damage to the trees. Line men were given special instructions to preserve the appearance of the trees, but the problem of reconciling the conflicting interests of the trees and the wires is often difficult, requiring a knowledge of forestry as well as of line work. The Commission has employed from time to time various tree experts, and engaged the services of institutions which make a speciality of tree trimming. The volume of this work has become so great that this year a special Forestry division has been formed in charge of men who have had special training in the scientific pruning and care of trees. A number of men have been employed, some being men with previous experience in forestry work and some linemen familiar with the work necessary to protect lines. A special training camp was opened where these men were given instructions and practical demonstrations by experts. These squads, under qualified foremen, are now employed in various localities, going over the power lines systematically in order that the beauty and life of the trees along our highways may be preserved to the fullest extent possible.

While these men are employed as a part of the Operating department on the numerous power lines throughout the Province, they are also used as occasion requires for tree trimming along rural lines or on new construction, and in future will be available on call for such municipalities as desire the benefit of their services on streets within the municipal boundaries.

Meter Division

The meter section of the Operating department has been active during the year, making tests of equipment, checking and maintaining the graphic meters used on large power loads, testing relays and carrying out investigations of various problems requiring special technical training. This section, which has been in existence for several years, is composed of electrical engineers who have specialized in the problems connected with measuring electricity and in the allied subject of relays. Due to the enormous capacity now connected to the Commission's lines, almost unlimited power might be fed into any equipment or line which breaks down in service if means were not provided for almost instantly cutting off the supply of electricity to the defective equipment. In such cases not only would the defective equipment be burned out by the rush of current but the disturbance and possible damage would extend back through all intervening equipment to the generators at the source of supply, and service might be interrupted over a large area or on the whole system. The importance of the instantaneous automatic opening of the proper switches has contantly increased with the increase in the generator capacity and number of consumers. In order that the relays which control the numerous switches shall function properly and promptly, the inspectors of the meter section carry out a regular system of inspection, and make the necessary adjustments to take care of constantly changing load conditions. The success of their work is evidenced by the past year's freedom from serious electrical damage to equipment, and in the high grade of service given to consumers generally.

In addition to the meter and relay inspectors stationed at various points, or with headquarters at Toronto, meter shops are maintained at Toronto, Niagara Falls and Belleville. At these shops repairs and alterations are made to the meters and relays, and new equipment designed and constructed to meet special conditions.

The engineers of the meter staff are frequently called upon to deal with intricate problems associated with other branches of the Commission's work, involving investigations to determine accurately the voltage or current conditions and the performance of apparatus. They are also frequently consulted by the municipalities on matters connected with meters and relays, and are available to the municipalities on call for investigation of load conditions which require either special metering equipment or specially trained engineers.

The meter shop at Niagara Falls deals with many problems connected with the measurement of the large amounts of power generated at the Commission's plants there, which often demand the invention or designing of special apparatus to meet conditions which are outside of the commercial field covered by the manufacturers of electrical equipment. Much work has been done in these shops in designing meters for combining and recording at one point the load being delivered at a number of points. During the past year, several special meters of this type were constructed and supplied to various power plants. Electrolysis action having eaten holes in the lead sheaths of cables between the Ontario Power plant and Niagara station, the engineers of the meter shop made a study of conditions to determine the cause, and by altering ground connections and insulating certain joints were able to prevent further electrolysis. The underground telephone cable between Queenston and the Ontario Power plant, which is used for both telephone communication and metering purposes, is subject to tremendously steep voltage gradients in the ground whenever an insulator flashes over on the nearby 60,000-volt power line. This causes current to flow from the lead sheath to the copper telephone conductors inside, near the flash-over, and from the copper back to the lead at some point more distant. The result has been a number of holes in the lead sheath allowing the telephone conductor to become wet, and every year it is necessary to repair this cable to

TOTAL POWER GENERATED AND

HYDRO-ELECTRIC GENERATING PLANTS

Plant	Normal operating capacity Oct. 31, 1930 horsepower	Peak load during fiscal year 1929-1930 horsepower	Total output during fiscal year 1929-1930 kilowatt-hours
Niagara: Queenston Plant	522,790	524,129	2,716,063,000
Niagara: "Ontario Power" Plant	183,650	180,965	698,823,100
Niagara: "Toronto Power" Plant	147,450	140,751	160,850,000
Sidney—Dam No. 2	4,020	4,558	16,600,100
Frankford—Dam No. 5	3,485	3,418	10,433,650
Meyersburg—Dam No. 8	6,430	8,043	26,020,850
Hague's Reach—Dam No. 9	4,500	4,960	17,920,670
Ranney Falls—Dam No. 10	9,650	10,724	32,819,820
Seymour—Dam No. 11	4,020	4,490	15,616,620
Heely Falls—Dam No. 14	12,060	16,221	36,941,280
Auburn—Dam No. 18	2,010	2,614	10,516,810
Fenelon Falls—Dam No. 30	1,000	938	2,622,100
Cameron Falls	75,000	77,880	297,741,000
Alexander	12,000	12,100	2,064,000
Eugenia	7,300	7,198	13,690,800
Big Chute	5,700	5,791	18,355,200
South Falls	5,200	5,455	23,434,320
Wasdells Falls	1,200	1,166	3,731,580
Hanna Chute	1,500	1,609	6,446,400
Trethewey Falls	2,200	2,279	6,391,200
Hanover	400	442	701,184
Nipissing	2,346	2,393	6,832,040
Bingham Chute	1,200	1,287	2,380,800
Elliott Chute	2,413	1,796	2,445,760
Coniston-Wahnapitae, No. 1	5,777	5,496	16,690,250‡
McVitties-Wahnapitae, No. 2	2,815	2,815	12,918,312‡
Stinson-Wahnapitae, No. 3	8,180	6,166	18,520,560‡
Ear Falls	5,000	1,582	4,056,000
Calabogie	4,300	2,513	6,170,652
Galetta	860	832	2,216,828
High Falls	2,400	3,080	8,850,360
Carleton Place	428	362	107,384
Total generated	1,047,284	1,044,053	4,198,972,630

maintain enough good conductors for service. The ordinary methods of locating faults do not indicate with sufficient exactness the point at which the cable should be dug up and cut open for repair. The meter staff has developed a method for this work which locates the fault to within one-half inch before the cable is sawed open. Another illustration of the special work carried out by this department occurred in connection with a request from an oil company to investigate a dangerous sparking noticed at the metal hose connections between a gasoline tank steamer and the land tank pipe flanges. The meter inspector discovered, on investigation, that the cause was current returning in the ground from an electric railway system, and although the voltage at the coupling was scarcely noticeable—less than one volt maximum—the current ran up to 30 amperes when the circuit was closed by making gasoline hose connections. A system of heavy by-pass cable, with switches located away from the gasoline fumes, and certain insulating precautions, eliminated the sparking. Aside from work of this special nature the meter staff carries out the regular routine of testing the numerous meters and relays at the plants in the district.

PURCHASED—ALL SYSTEMS

POWER PURCHASED

Plant	Contract amount horsepower	Peak horsepower	Total purchased kilowatt-hours
Canadian Niagara Power Co.	20,000	22,118	93,115,700
Gatineau Power Co.—25 cycle	250,000	219,000	656,727,160
Orillia Water, Light & Power Commission†	....	2,638	575,280
C.P.R. Plant, Port McNicoll	....	1,675	519,300
Owen Sound steam plant	....	885	473,700
Rideau Power Co.	487	978	2,686,200
Ottawa and Hull Power & Mfg. Co.	20,000	19,584	66,884,400
Gatineau Power Co.—60 cycle	18,000	18,760	42,436,000
Cedar Rapids Power Co.	7,500	7,185	30,772,500
Campbellford Water & Light Commission†	2,010	2,279	2,761,500
Peterborough Hydraulic Power Co.†	....	1,340	9,670
Canadian General Electric Co.†	....	....	....
Corporation of Fenelon Falls	....	....	....
Kaministiquia Power Co.	....	....	63,200
M. F. Beach Estate	500	375	350,000
Total purchased	318,497	296,817	897,374,610
Total generated and purchased, 1930	1,365,781	1,340,870*	5,096,347,240
" " " " 1929	1,222,321	1,258,491*	4,992,937,029
Increase	143,460	82,379*	103,410,211

‡Wahnapitae plants shown for 10-month period only.

†Reciprocal arrangement for surplus power.

*Peak totals given are direct sums of plant peaks as shown, with no allowance for diversity in time. Therefore, these totals do not indicate the demands on the various systems where there is more than one plant supplying power.

NOTE.—Output of five generating stations, at Bala (two), Walkerton, Southampton, and Sauble Falls, not included due to lack of records. Dominion Power and Transmission System plants are also omitted, as they were not operated by Commission until latter part of year.

NIAGARA SYSTEM

Queenston Generating Station

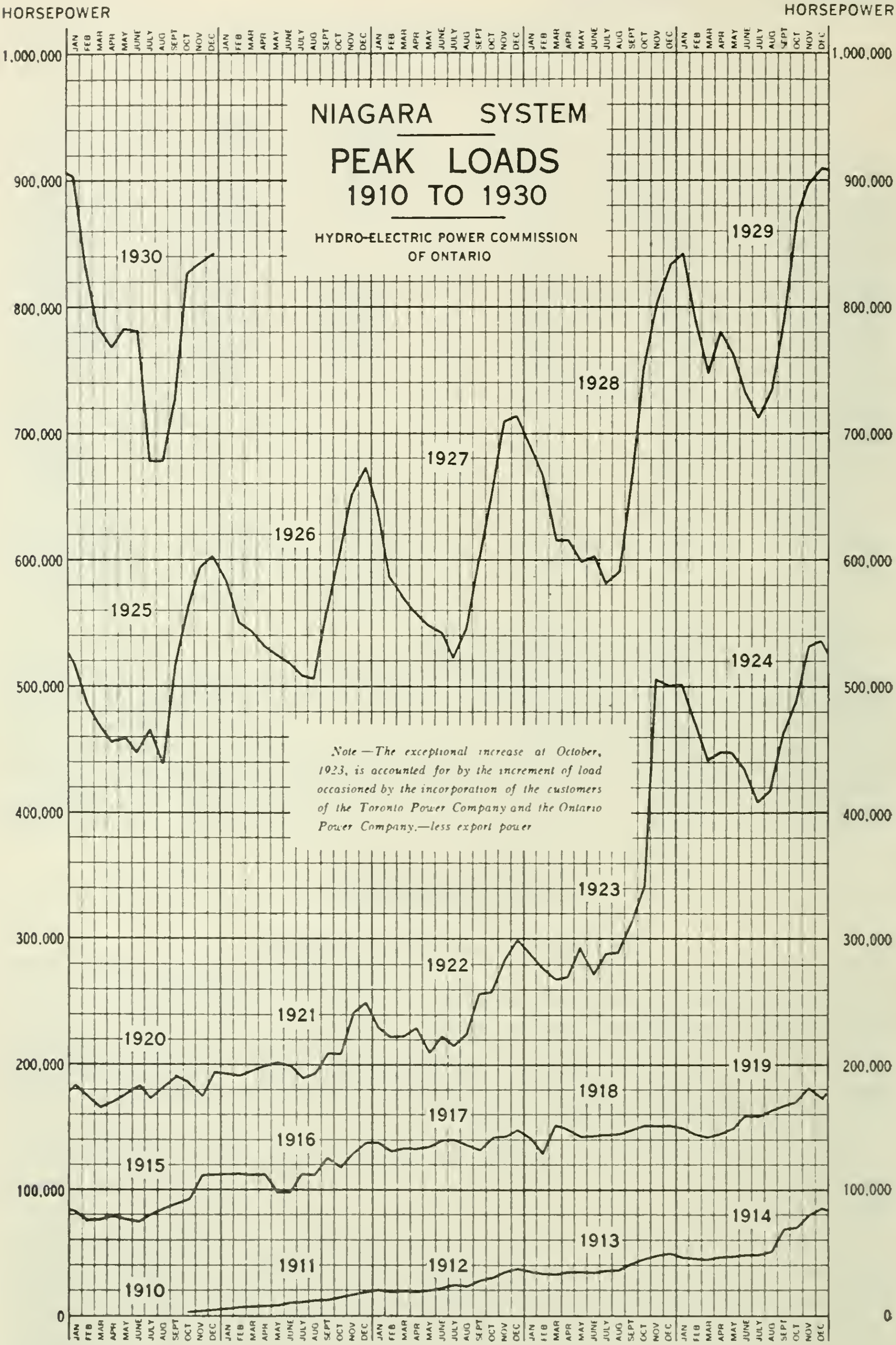
The operation of this plant was very satisfactory throughout the year. There were but two failures of equipment.

On March 31, 1930, the upper guide bearing on No. 8 unit burned out, necessitating repairs on the shaft and bearing, which were completed and the unit returned to service on May 1, 1930.

On December 13, 1929, a transformer in No. 2 bank, rated at 15,000 kv-a. 63,500/12,000 volts, failed. This unit was repaired and returned to service on May 11, 1930.

The installation of No. 10 unit was completed and the machine placed in operation on July 4, 1930. The permanent wall at the north end of the plant has been completed and the final finishing touches are being carried out.

The following machines were removed from service during the summer for inspection, repair, and overhaul: May 2 to May 13, No. 9 unit: generator

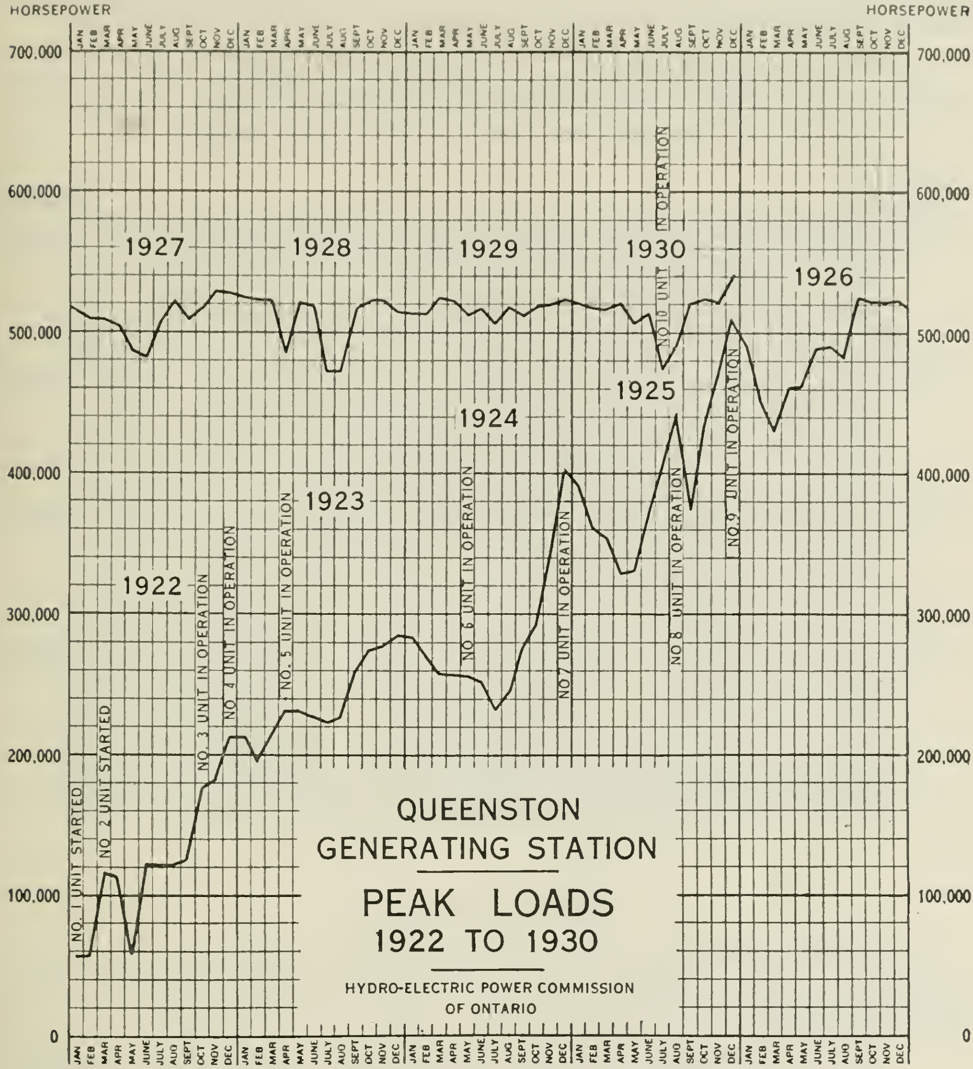


NIAGARA SYSTEM

PEAK LOADS
1910 TO 1930

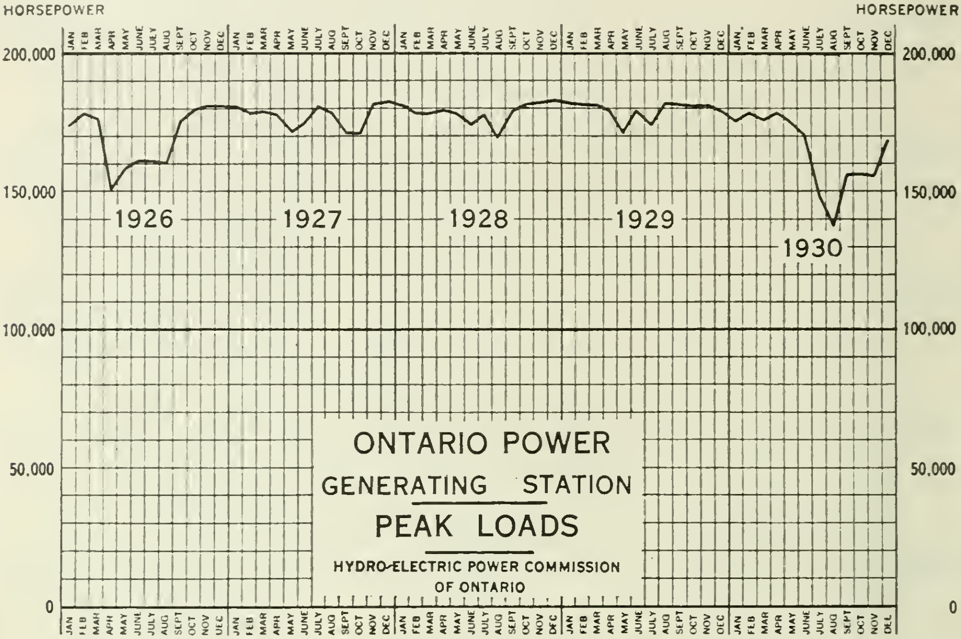
HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO

Note.—The exceptional increase at October, 1923, is accounted for by the increment of load occasioned by the incorporation of the customers of the Toronto Power Company and the Ontario Power Company.—less export power



cleaned and guide bearings replaced. May 14 to June 12, No. 2 unit: generator field coils reinsulated, stator windings cleaned and painted, guide bearings repaired, and welding done on turbine runner. June 13 to June 23, No. 4 unit: guide bearings repaired and turbine runner welded. July 2 to July 26, No. 6 unit: generator stator winding cleaned and painted, guide bearings repaired, welding done on turbine runner, and new draft-tube seal-ring installed; complete unit realigned. July 13 to August 13, No. 7 unit: generator stator coils renewed, guide bearings repaired, and turbine runner welded; complete unit realigned. July 27 to August 30, No. 1 unit: generator field coils reinsulated and stator coils cleaned and painted, guide bearings repaired, rebuilt spare runner installed; complete unit realigned. August 19 to August 28, No. 3 unit: guide bearings repaired and turbine runner welded. September 2 to November 14, No. 5 unit: generator stator completely dismantled, frame rebored, new stator laminations and coils installed, field coils removed and overhauled, guide bearings repaired, turbine runner welded; complete unit realigned.

The usual annual inspection of all electrical, hydraulic and mechanical equipment was carried out and repairs made where necessary. Considerable painting was carried out and miscellaneous improvements made.



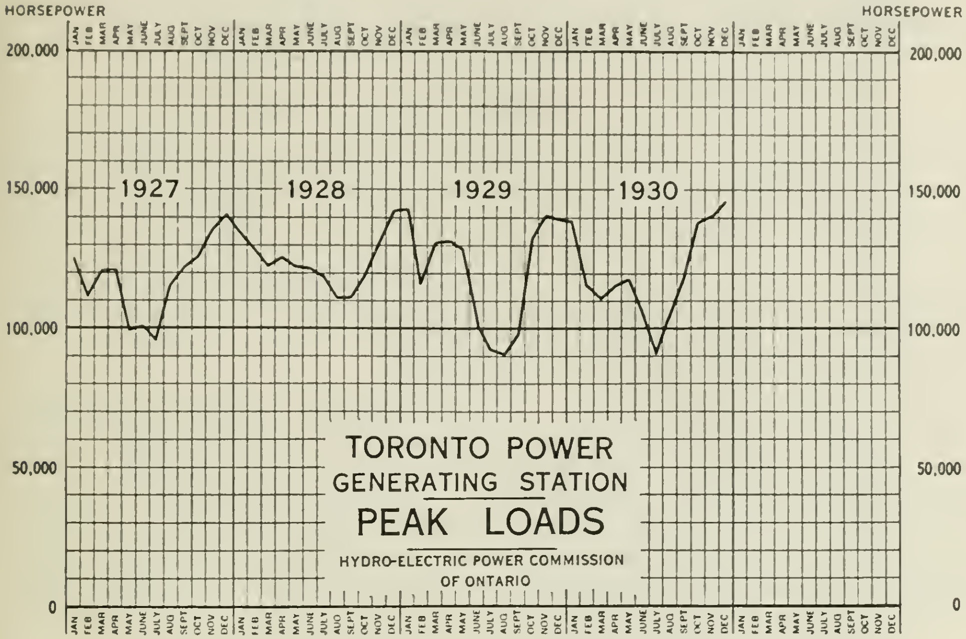
Ontario Power Plant

The Ontario Power plant of the Commission at Niagara Falls gave very satisfactory service, units No. 5 and No. 1 being the only ones to fail in service during the year.

The following machines were out of service during the year for inspection, repair and overhaul: May 9 to June 23, No. 1 unit: generator field coils reinsulated and stator coils cleaned and painted; new turbine runner installed, and the seal rings and cheek plates repaired. June 17 to August 6, No. 12 unit: generator stator coils cleaned and painted, new turbine runner installed, and the seal rings and cheek plates repaired. June 28 to September 13, No. 3 unit: generator field coils reinsulated and stator coils cleaned and painted, new runner installed and the seal rings and cheek plates repaired. August 8 to October 13, No. 8 unit: generator stator coils cleaned and painted, new turbine runner installed and the seal rings and cheek plates repaired. September 28 to December 3, No. 5 unit: this generator failed in service and two groups of stator coils had to be renewed, and the winding cleaned and painted. A new turbine runner was installed and the seal rings and cheek plates repaired. October 23 to December 15, No. 1 unit: this generator also failed in service, requiring all stator coils to be replaced.

The concreting of No. 3 wood-stave pipe line was started on May 26 and completed on October 31, 1930.

During the year all minor equipment was regularly inspected and repairs made where necessary, the plant generally being kept up to a high standard.



Toronto Power Plant

The operation of the above plant was carried out in the usual way during the year. The plant was closed down completely on July 14, 1930, for inspection of the discharge tunnel, which was found to be in good condition.

The following machines were out of service during the year for inspection, repair and overhaul: November 18 to November 19, 1929, No. 3 unit: generator stator coil broke down and was repaired. March 19 to March 23, 1930, No. 2 unit: generator stator coil broke down and was repaired. March 19 to March 28, No. 3 unit: generator stator coil broke down and was repaired. April 7 to June 28, No. 4 unit: turbine runner welded, new gate rods and bushings installed, guide bearing renewed. April 24 to April 25, No. 6 unit: generator stator coil broke down and was repaired. June 24 to June 25, No. 6 unit: generator stator coil broke down and was repaired. July 3 to September 3, No. 6 unit: turbine runner welded, new gate rods and bushings installed, guide bearings renewed. (These are the first repairs required by this turbine since its installation in March, 1912, over eighteen years ago.) September 4 to October 20, No. 8 unit: lower turbine gates repaired. September 11 to September 12, No. 3 unit: generator stator coil broke down and was repaired.

At the Toronto Power transformer station the 90,000-volt service to Toronto was discontinued on March 8, 1930, and the two 90,000-volt transformer banks reconnected for 60,000-volt service on October 17, 1930.

On December 28, 1929, No. 1 transformer in No. 3 bank failed. This unit was repaired and returned to service on January 23, 1930.

Regular inspection and repair of all minor equipment was carried out during the year to maintain the plant in the best possible condition.

Transmission, Transformation and Distribution

The operation of the 220,000-volt section of the system was very satisfactory, there being no failures of the 220,000-volt lines cutting off the supply of power to Leaside station. During a lightning storm one of the 220,000-volt circuits opened automatically, but service was not interrupted as this occurred after the second circuit was in operation. The 220,000-volt transformers and other equipment in the station at Leaside gave good service, there being only two interruptions during the year to the low-tension lines supplied from the station, these having a duration of only one minute each.

The operation of the 110,000-volt transmission lines was also very satisfactory. The system was divided into three divisions for operating purposes, known as the yellow, green and brown, in order to promote continuity of service by segregating any trouble that might develop. There was no interruption to service on the green division during the year. On the yellow division there were two interruptions totalling 3½ minutes caused by lightning, and on the brown division four interruptions, totalling 8½ minutes, two caused by lightning, one by sleet, and one by insulator flashover.

From December 7 to 9, 1929, a sleet storm in the Essex and Brant districts caused some damage to low-tension lines.

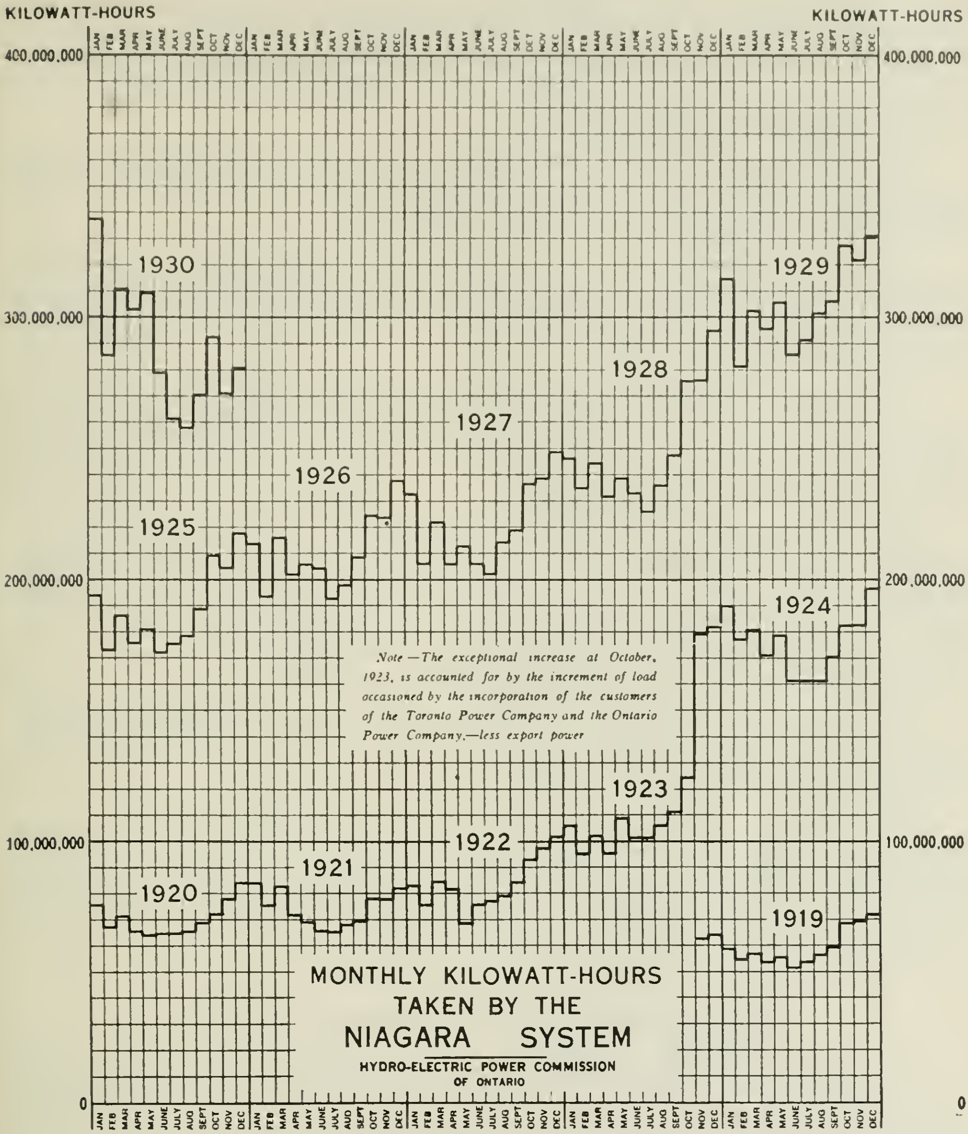
A sleet storm of exceptional severity, lasting from December 17 to December 20, 1929, caused damage to the 110,000-volt circuits between Niagara Falls and Dundas, and to low-tension lines in Niagara, Dundas, Brant, Woodstock, London, St. Thomas, Kent and St. Clair districts.

The sleet storm of March 25 and 26, 1930, caused trouble on the 110,000-volt circuits between Niagara Falls and Dundas and on the low-tension lines in Brant, Woodstock, Kent and Essex districts.

A severe wind and lightning storm on May 1, 1930, caused interruptions and damage to lines in the Cooksville district, and a similar storm on September 2, 1930, affected the York and New Toronto districts.

On October 14th, 1930, a tree felled against a power line near Woodstock short-circuited the line, causing the breakdown of equipment and a fire in Woodstock high-tension station, and resulted in a total interruption of two hours and twenty-nine minutes to all service in the district.

The usual regular patrol, inspection, and maintenance work was carried out on all lines during the year; all lines damaged by storms and otherwise were repaired. Insulators were meggered and tested on both high-tension and distribution lines.



Note.—The exceptional increase at October, 1923, is accounted for by the increment of load occasioned by the incorporation of the customers of the Toronto Power Company and the Ontario Power Company,—less export power

MONTHLY KILOWATT-HOURS
TAKEN BY THE
NIAGARA SYSTEM
HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO

Changes were made in the 110,000-volt circuits at Queenston, Hamilton and York stations, and at Saltfleet and Nelson junctions to facilitate load distribution and better to suit operating conditions. The 90,000-volt circuits from Islington to Toronto were reinsulated for 110,000-volt operation and placed in service on March 9, 1930.

The distribution circuits in the Guelph district and in part of the Kent, York and Dundas districts were overhauled.

The second 220,000-volt line from Leaside to the Ottawa river was completed and put into operation on July 27, 1930.

The following 110,000-volt circuits were put in operation: Queenston generating station to Queenston forebay, Hamilton junction to Hamilton transformer station, Kitchener transformer station to Hanover frequency-changer station, and Montrose junction to Crowland junction, the latter being operated at present at 60,000 volts.

The following 26,000-volt distribution lines were put in operation: Essex transformer station to Maidstone junction, Maidstone junction to Essex distributing station, Burford to Canadian Aggregates.

New 13,200-volt lines were put in service from Toronto Power transformer station to Chippawa junction, and from the Riordon Paper Company to Merritton substation. The 13,200-volt line from Lincoln junction to the south side of Welland canal was removed.

All equipment at high-tension transformer stations and distributing stations was inspected and overhauled, and repairs made on all damaged equipment. At several high-tension stations the original 110,000-volt oil-breaker bushings were replaced with the gum-filled type.

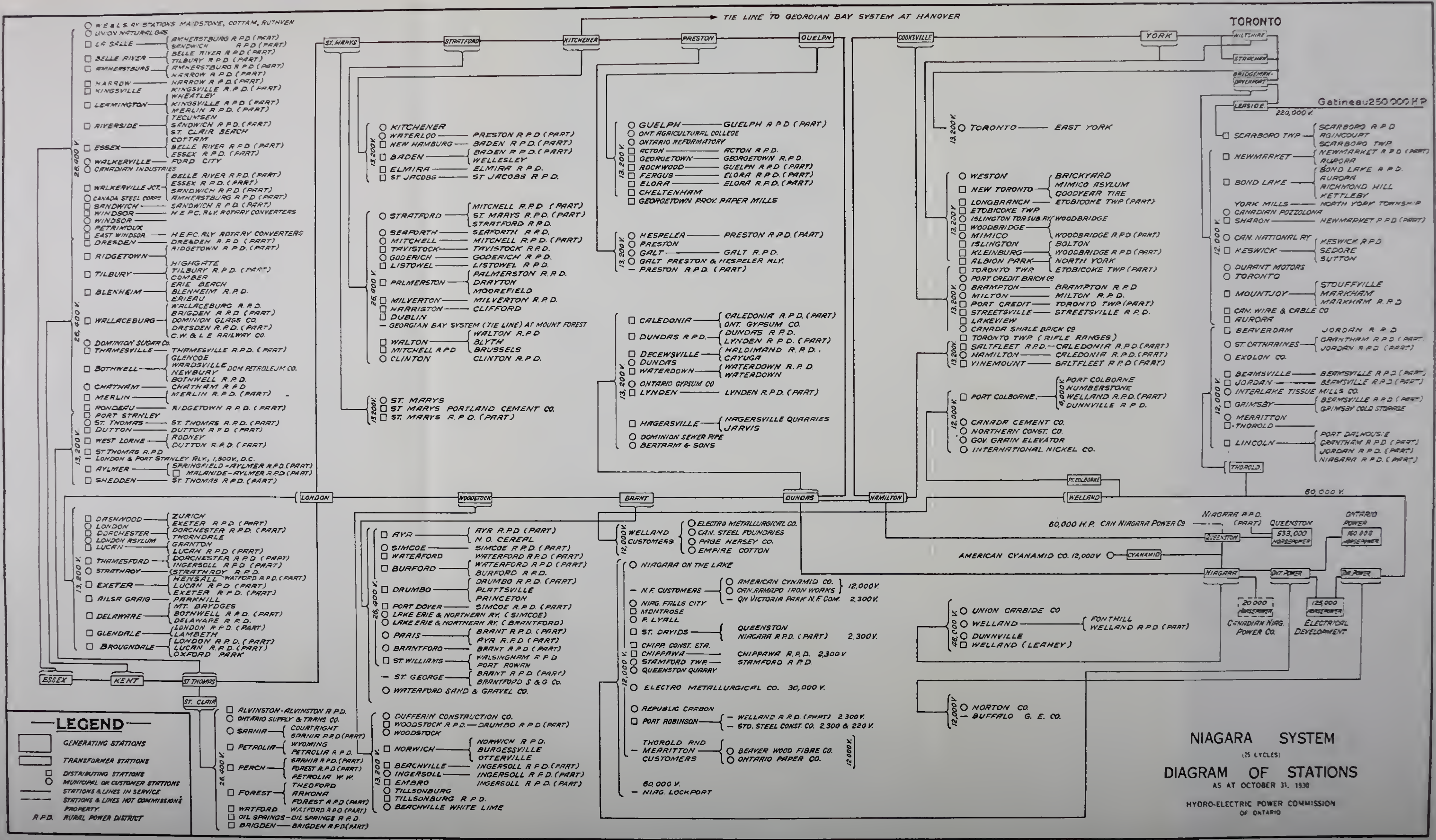
There were ten failures of transformers during the year, of which two were returned to the manufacturers for repairs, six were repaired by the Commission's own maintenance staff, and two 90,000-volt units were not repaired as they were not required for service, the 90,000-volt lines being discontinued. Seven 750 kv-a. high-tension units, which had been out of service for some years, were overhauled and rebuilt for use at the new Hanover station.

During the year a number of changes were made in the capacity of high-tension stations and distribution stations as covered in the electrical engineering and construction sections of this Report.

The following new distributing stations were put in service during the year: Rifle Ranges, Beaverdam, Strathroy R.P.D., Woodbridge, Maidstone, Ruthven and Cottam. The original Woodbridge station was dismantled. The transformer and converter equipment at the Canada Salt company, owned by the Commission, was sold to the Canada Salt company.

Dominion Power and Transmission System

The Commission acquired, under purchase agreement dated April 2, 1930, certain properties and subsidiaries of the Dominion Power and Transmission Company, including generating plants, transmission lines and sub-stations. To avoid disturbing service to the customers, the operation of the properties was continued on the same basis as in the past by the staff taken over with the properties. Detail studies are being made to determine how the operation of the new stations and lines may be best co-ordinated with the operation of the Commission's Niagara system to the mutual advantage of both.



LEGEND

GENERATING STATIONS
TRANSFORMER STATIONS
☐ DISTRIBUTING STATIONS
○ MUNICIPAL OR CUSTOMER STATIONS
STATIONS & LINES IN SERVICE
STATIONS & LINES NOT COMMISSIONED PROPERTY
R.P.D. RURAL POWER DISTRICT

NIAGARA SYSTEM

(25 CYCLES)

DIAGRAM OF STATIONS

AS AT OCTOBER 31, 1930

HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

NIAGARA SYSTEM—LOADS OF MUNICIPALITIES, 1928-1929-1930

Municipality	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
Acton	571.7	609.0	778.7		169.7
Agincourt	112.8	123.0	131.3		8.3
Ailsa Craig	100.8	82.3	87.9		5.6
Alvinston	77.0	78.0	88.2		10.2
Amherstburg	513.4	573.7	600.5		26.8
Ancaster Township	356.5	351.2	250.6	100.6	
Arkona	60.0	60.0	61.6		1.6
Aurora	785.0	825.7	860.6		34.9
Aylmer	468.0	457.3	529.5		72.2
Ayr	128.9	136.2	172.2		36.0
Baden	313.6	268.1	277.5		9.4
Barton Township	652.4	79.7	71.0	8.7	
Beachville	214.5	260.0	238.6	21.4	
Belle River	70.3	144.7	148.8		4.1
Blenheim	332.4	345.8	386.0		40.2
Blyth	77.7	91.4	85.8	5.6	
Bolton	101.5	122.4	118.4	4.0	
Bothwell	109.9	103.2	97.8	5.4	
Brampton	1,935.8	2,018.2	2,116.7		108.5
Brantford	9,781.5	10,140.8	9,343.2	797.6	
Brantford Township	390.1	630.0	542.5	87.5	
Bridgen	118.7	81.7	86.0		4.3
Brussels	124.3	123.3	136.7		13.4
Burford	136.8	138.6	141.3		2.7
Burgessville	60.7	49.2	56.3		7.1
Bridgeport	177.0	153.8	104.0	49.8	
Caledonia	281.5	323.6	344.5		20.9
Campbellville	21.4	27.3	28.1		0.8
Cayuga	72.4	85.1	102.8		17.7
Chatham	4,382.1	4,637.2	4,188.1	449.1	
Chippawa	211.8	260.0	270.8		10.8
Clifford	52.5	51.6	64.3		12.7
Clinton	443.9	399.4	415.5		16.1
Comber	152.8	147.4	143.1	4.3	
Courtright	36.2	49.6	47.5	2.1	
Cottam	49.6	59.0	73.7		14.7
Dashwood	76.1	62.6	69.3		6.7
Delaware	32.1	36.4	38.8		2.4
Dorchester	70.4	72.2	75.7		3.5
Drayton	82.0	86.1	89.0		2.9
Dresden	251.8	278.0	291.9		13.9
Drumbo	70.4	65.4	53.6	11.8	
Dublin	77.6	40.2	45.5		5.3
Dundas	1,454.4	1,555.0	1,447.7	107.3	
Dunnville	603.2	668.9	758.7		89.8
Dutton	209.1	210.4	212.6		2.2
East Windsor	3,989.2	3,567.0	3,072.4	494.6	
Elmira	1,016.1	1,067.0	760.8	306.2	
Elora	396.8	401.6	422.2		20.6
Embro	74.8	79.7	81.4		1.7
Erieau	50.2	46.2	60.3		14.1
Erie Beach	10.0	9.8	16.7		6.9
Etobicoke Township	2,494.1	2,942.4	3,345.7		403.3
Exeter	416.2	411.5	407.5	4.0	
Essex	312.3	337.8	400.8		63.0

NIAGARA SYSTEM—LOADS OF MUNICIPALITIES, 1928-1929-1930—Continued

Municipality	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
Fergus	573.8	685.5	729.7		44.2
Forest	263.4	269.9	290.8		20.9
Fonthill	104.5	123.2	126.7		3.5
Galt	6,748.7	7,089.6	6,854.3	235.3	
Georgetown	755.4	854.7	923.8		69.1
Glencoe	163.8	147.4	159.5		12.1
Goderich	1,035.1	1,160.8	1,068.7	92.1	
Granton	86.0	80.0	47.9	32.1	
Guelph	7,630.1	8,154.8	7,423.8	731.0	
Hagersville	1,278.8	1,214.5	1,136.7	77.8	
Hamilton	51,943.6	65,685.8	60,434.8	5,251.0	
Harriston	270.2	268.1	292.9		24.8
Harrow	205.3	300.2	349.8		49.6
Hensall	90.6	152.4	146.1	6.3	
Hespeler	1,071.8	1,134.6	1,453.1		318.5
Highgate	119.3	117.3	73.3	44.0	
Humberstone	305.6	268.1	331.1		63.0
Ingersoll	2,173.2	2,104.6	2,103.3	1.3	
Jarvis	150.1	169.3	172.9		3.6
Kingsville	388.7	411.5	451.7		40.2
Kitchener	14,457.0	16,042.8	16,315.3		272.5
Lambeth	107.7	97.2	107.2		10.0
Leamington	871.3	1,272.1	1,042.9	229.2	
Listowel	727.9	833.8	855.2		21.4
London	25,884.4	28,337.6	28,954.0		616.4
London Township V.A.	175.0	230.2	293.5		63.3
Lucan	155.9	175.6	167.1	8.5	
Lynden	70.7	67.5	85.1		17.6
LaSalle	230.5	265.4	237.5	27.9	
Markham	146.4	155.3	205.0		49.7
Merlin	130.0	162.2	174.2		12.0
Merritton	1,075.1	2,300.3	2,603.2		302.9
Milton	1,092.3	1,124.4	1,024.4	100.0	
Milverton	585.8	359.2	343.1	16.1	
Mimico	1,857.9	2,010.7	2,013.4		2.7
Mimico Asylum	65.0	65.0	65.0		
Mitchell	451.7	393.4	469.1		75.7
Moorefield	56.0	54.0	30.8	23.2	
Mount Brydges	68.3	76.9	80.4		3.5
Newbury	38.2	33.5	40.2		6.7
New Hamburg	584.1	413.3	492.9		79.6
Newmarket	697.0	978.5	1,069.7		91.2
New Toronto	4,871.2	5,533.5	5,069.7	463.8	
Niagara Falls	8,910.2	9,408.8	9,864.6		455.8
Niagara-on-the-Lake	494.6	525.5	575.1		49.6
Norwich	322.5	315.0	321.7		6.7
Oil Springs	263.8	180.0	182.4		2.4
Ontario Agricultural College	312.3	270.8	320.3		49.5
Ontario Central Reformatory	263.4	208.5	229.2		20.7
Otterville	72.4	74.1	68.0	6.1	

NIAGARA SYSTEM—LOADS OF MUNICIPALITIES, 1928-1929-1930—Continued

Municipality	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
Palmerston	496.6	438.4	444.9		6.5
Paris	1,284.2	1,267.1	1,305.8		38.7
Parkhill	138.0	147.4	150.1		2.7
Petrolia	670.6	758.2	794.4		36.2
Plattsville	45.9	51.7	49.6	2.1	
Point Edward	238.6	398.1	664.9		266.8
Port Colborne	1,282.8	1,481.2	1,595.2		114.0
Port Credit	475.9	485.2	591.1		105.9
Port Dalhousie	327.7	380.7	423.6		42.9
Port Dover	251.3	280.8	296.9		16.1
Port Rowan	54.3	59.2	74.4		15.2
Port Stanley	154.1	184.9	218.5		33.6
Preston	3,224.9	3,502.7	3,341.8	160.9	
Princeton	36.2	75.0	80.4		5.4
Queenston	85.8	85.8	83.1	2.7	
Richmond Hill	201.4	249.3	257.9		8.6
Ridgetown	430.3	461.1	461.1		
Riverside	1,126.0	1,254.7	1,238.3	16.4	
Rockwood	92.5	70.1	107.2		37.1
Rodney	119.5	130.6	139.8		9.2
St. Catharines	8,034.4	9,061.9	8,999.2	62.7	
St. Clair Beach	71.7	88.4	80.4	8.0	
St. George	154.4	143.4	134.0	9.4	
St. Jacobs	189.2	203.4	246.5		43.1
St. Marys	1,349.8	1,231.9	1,402.1		170.2
St. Thomas	5,051.2	5,502.7	5,624.6		121.9
Sarnia	5,997.5	6,447.6	6,950.3		502.7
Sandwich	3,746.7	3,664.9	3,861.4		196.5
Scarboro Township	2,320.3	2,294.8	2,788.2		493.4
Seaforth	572.0	663.4	466.1	197.3	
Simcoe	1,017.7	1,153.3	1,365.1		211.8
Springfield	124.6	91.1	85.1	6.0	
Stamford Township	1,429.1	1,636.0	1,843.2		207.2
Stouffville	115.2	128.1	155.5		27.4
Stratford	7,124.8	7,120.8	7,760.5		639.7
Strathroy	781.7	891.2	907.3		16.1
Sutton	103.2	107.2	144.4		37.2
Tavistock	442.3	420.9	431.6		10.7
Tecumseh	319.1	444.7	438.3	6.4	
Thamesford	137.4	142.7	153.5		10.8
Thamesville	186.3	210.4	197.8	12.6	
Thedford	54.9	51.3	52.5		1.2
Thorndale	61.0	59.0	40.2	18.8	
Thorold	801.3	1,448.0	2,170.9		722.9
Tilbury	528.1	514.7	502.7	12.0	
Tillsonburg	738.6	841.8	811.0	30.8	
Toronto	241,366.0	270,628.0	280,280.0		9,652.0
Toronto Township	1,198.6	1,268.1	1,612.3		344.2
Walkerville	6,353.9	8,729.2	8,256.0	473.2	
Wallaceburg	3,269.4	3,451.7	1,808.3	1,643.4	
Wardsville	32.1	29.5	32.1		2.6
Waterdown	195.8	202.3	246.0		43.7
Waterford	396.8	382.0	371.3	10.7	
Waterloo	2,948.4	3,203.3	2,814.7	388.6	

NIAGARA SYSTEM—LOADS OF MUNICIPALITIES, 1928-1929-1930—Continued

Municipality	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
Watford	201.0	171.6	167.5	4.1	....
Welland	3,433.0	4,248.0	3,848.5	39 .5	....
Wellesley	133.2	104.6	126.6	....	22.0
West Lorne	324.1	345.8	273.4	72.4	....
Weston	2,398.8	2,957.1	3,150.1	....	193.0
Wheatley	117.1	134.8	142.0	....	7.2
Windsor	27,616.9	27,712.3	28,087.8	....	375 5
Woodbridge	217.1	209.1	288.2	....	79.1
Woodstock	4,781.5	4,977.2	4,879.3	97.9	....
Wyoming	58.7	50.6	61.0	....	10.4
York, East Township	3,382.0	4,017.4	4,788.2	....	770.8
York, North Township	1,240.5	1,414.2	2,143.4	....	729.2
Zurich	87.9	83.2	92.5	....	9.3

In some instances the decreases shown are due entirely or in part to transference of load from a municipality to a newly established rural power district.

NIAGARA SYSTEM—RURAL POWER DISTRICT LOADS, 1928-1929-1930

Rural power district	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
Acton	2.0	2.0	2.0	....	....
Alvinston	....	1.0	1.6	....	0.6
Amherstburg	404.5	533.1	525.2	7.9	....
Aylmer	133.5	155.3	245.3	....	90.0
Ayr	9.0	16.5	24.5	....	8.0
Baden	148.7	193.1	253.7	....	60.6
Beamsville	537.5	625.3	915.5	....	290.2
Belle River	158.2	261.0	263.2	....	2.2
Blenheim	82.7	134.7	123.1	11.6	....
Brant	259.8	291.4	451.6	....	160.2
Bond Lake	520.2	522.8	715.3	....	192 5
Bothwell	109.5	109.5	124.5	....	15.0
Brampton	64.2	109.1	119.2	....	10.1
Bridgen	21.9	27.0	33.2	....	6.2
Burford	68.0	93.5	105.9	....	12.4
Caledonia	102.1	136.7	209.2	....	72.5
Chatham	254.8	411.0	470.1	....	59.1
Chippawa	108.6	99.2	120.6	....	21.4
Clinton	37.9	61.8	90.1	....	28.3
Delaware	174.5	201.1	247.4	....	46.3
Dorchester	248.1	290.8	321.4	....	30.6
Dresden	2.0	3.7	10.0	....	6.3
Drumbo	58.7	36.3	85.9	....	49.6
Dundas	341.9	415.3	355.6	59.7	....
Dunnville	3.2	4.0	4.0	....	....
Dutton	23.2	82.5	100.0	....	17.5

NIAGARA SYSTEM—RURAL POWER DISTRICT LOADS, 1928-1929-1930—Continued

Rural power district	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
Elora	40.1	43.3	84.0		40.7
Elmira	21.4	24.1	40.8		16.7
Essex	140.9	214.9	209.5	5.4	
Exeter	144.1	160.0	194.4		34.4
Forest	2.9	6.3	16.3		10.0
Galt	105.7	131.4	154.7		23.3
Georgetown	39.5	47.4	123.1		75.7
Goderich	35.8	42.9	65.0		22.1
Grantham	417.8	434.1	479.6		45.5
Guelph	58.8	115.5	348.5		233.0
Haldimand	22.0	40.0	228.2		188.2
Harrow	165.3	205.2	349.8		144.6
Ingersoll	117.0	361.0	303.2	57.8	
Jordan	44.1	207.5	294.6		87.1
Keswick	116.0	151.4	209.5		58.1
Kingsville	355.6	402.3	545.3		143.0
Listowel	50.6	63.5	96.5		33.0
London	1,014.7	1,222.6	1,420.3		197.7
Lucan	41.1	41.9	66.5		24.6
Lynden	117.2	101.6	143.0		41.4
Markham	181.9	208.4	296.2		87.8
Merlin		84.1	144.7		60.6
Milton	73.3	105.1	99.8	5.3	
Milverton	29.7	36.8	45.5		8.7
Mitchell	100.0	123.6	161.0		37.4
Newmarket	182.7	207.3	213.8		6.5
Niagara	609.7	523.0	504.5	18.5	
Norwich	183.8	198.4	202.0		3.6
Oil Springs	41.8	38.5	37.1	1.4	
Palmerston	3.0	3.8	4.0		0.2
Petrolia	5.3	5.3	27.0		21.7
Preston	508.5	607.7	770.4		162.7
Ridgetown	239.3	255.3	328.7		73.4
Saltfleet	545.9	522.2	663.8		141.6
Sandwich	850.9	1,022.4	1,060.9		38.5
Sarnia	328.1	435.6	427.7	7.9	
Scarboro Township	81.6	205.0	285.5		80.5
Seaforth	62.0	23.7	36.5		12.8
Stratford	155.8	136.2	167.8		31.6
St. Jacobs	163.3	165.1	238.7		73.6
St. Marys	96.4	142.7	185.7		43.0
St. Thomas	430.2	391.4	460.6		69.2
Simcoe	106.3	122.0	155.5		33.5
Stamford	105.2	161.6	174.9		13.3
Strathroy	23.9	31.9	37.2		5.3
Streetsville	119.6	274.0	342.5		68.5

NIAGARA SYSTEM—RURAL POWER DISTRICT LOADS, 1928-1929-1930—Continued

Rural power district	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
Tavistock	82.9	110.2	141.1	....	30.9
Thamesville	59.4	67.0	97.7	....	30.7
Tilbury	103.2	38.6	67.3	....	28.7
Tillsonburg	226.2	239.0	279.9	....	40.9
Wallaceburg	128.7	137.6	114.7	22.9	....
Walsingham	35.2	45.8	76.8	....	31.0
Walton	41.6	70.7	66.7	4.0	....
Waterford	61.0	75.6	119.0	....	43.4
Waterdown	241.0	389.3	491.2	....	101.9
Welland	970.0	1,218.6	1,095.2	123.4	....
Woodbridge	356.6	559.8	538.3	21.5	....
Woodstock	395.3	394.3	501.1	....	106.8

NIAGARA SYSTEM—NEW RURAL POWER DISTRICTS

Rural power district	Date connected	Load in horsepower		Change in load	
		Initial	Oct., 1929	Decrease	Increase
Ailsa Craig	Sept. 9, 1930	0.8	0.8	....	....
Harriston	Dec. 1, 1929	3.0	4.8	....	1.8
Watford	Dec. 16, 1929	1.7	11.5	....	9.8

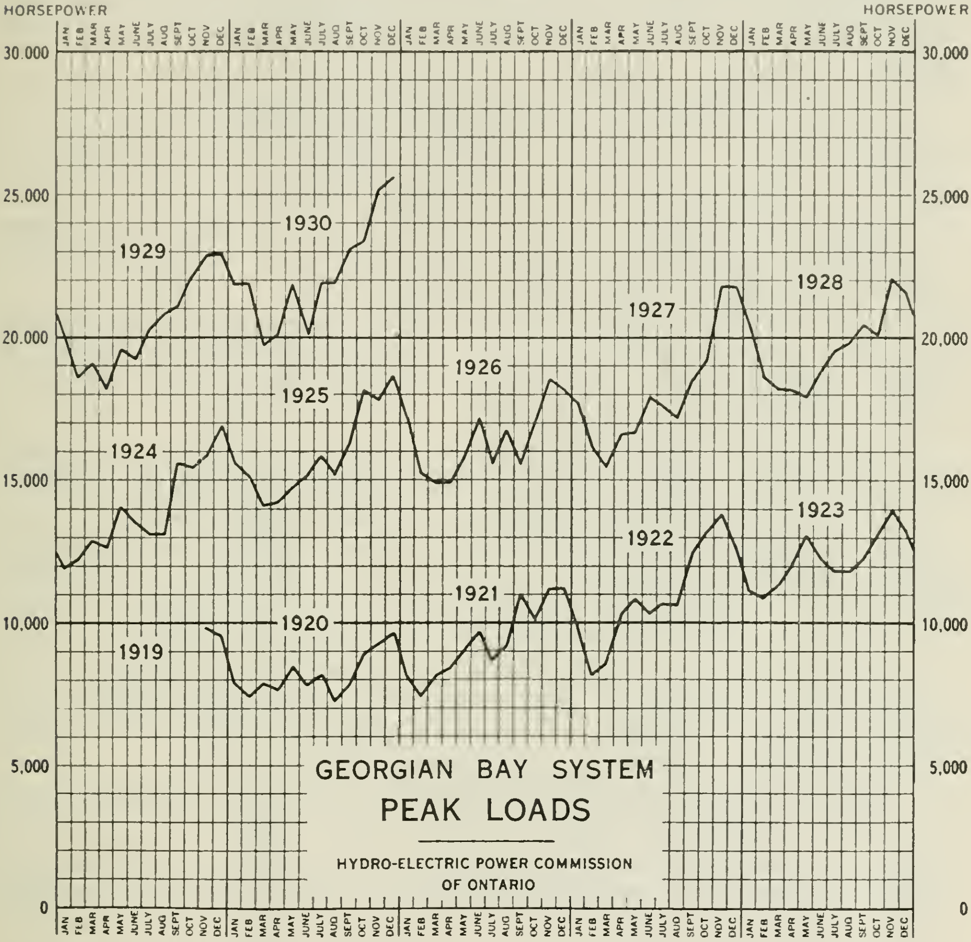
GEORGIAN BAY SYSTEM

The load on this system shows an increase notwithstanding adverse industrial conditions, the maximum peak being about six per cent greater than the maximum peak for the previous year and the average yearly load showing an increase of eight per cent.

To assist in carrying the heavy loads of November and December, 1929, the Owen Sound steam plant and Canadian Pacific Railway Company's steam plant at Port McNicoll were operated in parallel with the Commission's generating stations. This steam-generated power was of considerable assistance in carrying the system load during the fall period when the storage water was much depleted. The shortage of water available for power plant operation was relieved by a thaw in January.

The sources of power supply for this system were augmented during the past year by the addition of the Hanover frequency changer station which is supplied over a 110,000-volt line from Kitchener station on the Niagara system.

This station makes power from Niagara Falls available for use on the Georgian Bay system, up to the capacity of the equipment installed. The frequency changer set has a normal rating of 5,000 kv-a., but it was operated at somewhat heavier loads in the fall of 1929 to assist in the conservation of storage water. This station was placed in service September 26, 1930, and normally operates in parallel with the total system.



NOTE:—The Georgian Bay system includes the Severn, Eugenia, Wasdells, Muskoka and Bala districts. In the diagram the load for the Muskoka district is not included until November, 1924. Details respecting this load for preceding years are given in earlier Annual Reports. The load of the new district at Bala is not included in above graph, records being incomplete.

A new 22,000-volt line was constructed from Kilsyth to Tara, and continued on to Southampton. Tara was formerly served by a 4,000-volt line from Kilsyth, but a transformer station of 75-kv-a. capacity was erected at Tara which is now served directly from the new 22,000-volt line. The 4,000-volt line between Kilsyth and Tara stations now serves rural load, and can be used in emergencies as a low-tension tie line.

A new distributing station was also erected at Southampton, with a transformer capacity of 300 kv-a., and the Southampton municipal load was carried by the Eugenia district, commencing in July.

A tie line was erected from Saugeen junction (on the Hanover to Chesley 22,000-volt line) to Derby Mills junction (on the Kilsyth to Tara 22,000-volt line). This forms a loop on the 22,000-volt lines, including Kilsyth junction, Derby Mills junction, Hanover frequency changer station and Eugenia power house, with two sources of power supply, which should tend towards continuity of service and more flexible operation of the north and west portions of the system.

A tie line was also erected between the Big Chute powerhouse and the two generating plants at Bala, by way of Ragged rapids on the Muskosh river. A transformer station of 450-kv-a. capacity was erected at Bala, and additional power was supplied to the Bala district from the Big Chute over this tie line.

Two auto-transformers with a total capacity of 3,000 kv-a. were installed at Eugenia power house on the Severn-Eugenia tie line to control the voltage of the power received from the Severn district.

A new 22,000-volt line was built from Greenbank south to Uxbridge and Port Perry, replacing the 4,000-volt lines, and transformer stations of 300-kv-a. capacity were erected at both these towns. Greenbank step-down station was removed from service.

Other new transformer stations erected during the year were:—Midhurst 75 kv a., Utterson 300 kv-a., Fergusonvale 75 kv-a., and Painswick 300 kv-a.

Transformer capacity was increased at Chesley distributing station from 450 kv-a. to 750 kv-a.; at Kirkfield from 225 kv-a. to 450 kv-a.; at Innisfil from 100 kv-a. to 450 kv-a., and service changed from 4,600-volt single-phase to 8,000-volt, 3-phase. An additional bank of 3,000-kv-a. capacity was installed at Barrie, and connected 3-phase, 4-wire, 4,000-volt on the low tension side.

Failures occurred in the 1,500-kv-a. auto-transformer at Wasdells, in one transformer of a three-phase bank at Penetang, and in one transformer of a three-phase bank at Meaford. These transformers were all sent to the manufacturer for repairs and were then returned to service.

The line entrance structure was rebuilt at Big Chute, replacing certain parts which had become defective through length of service.

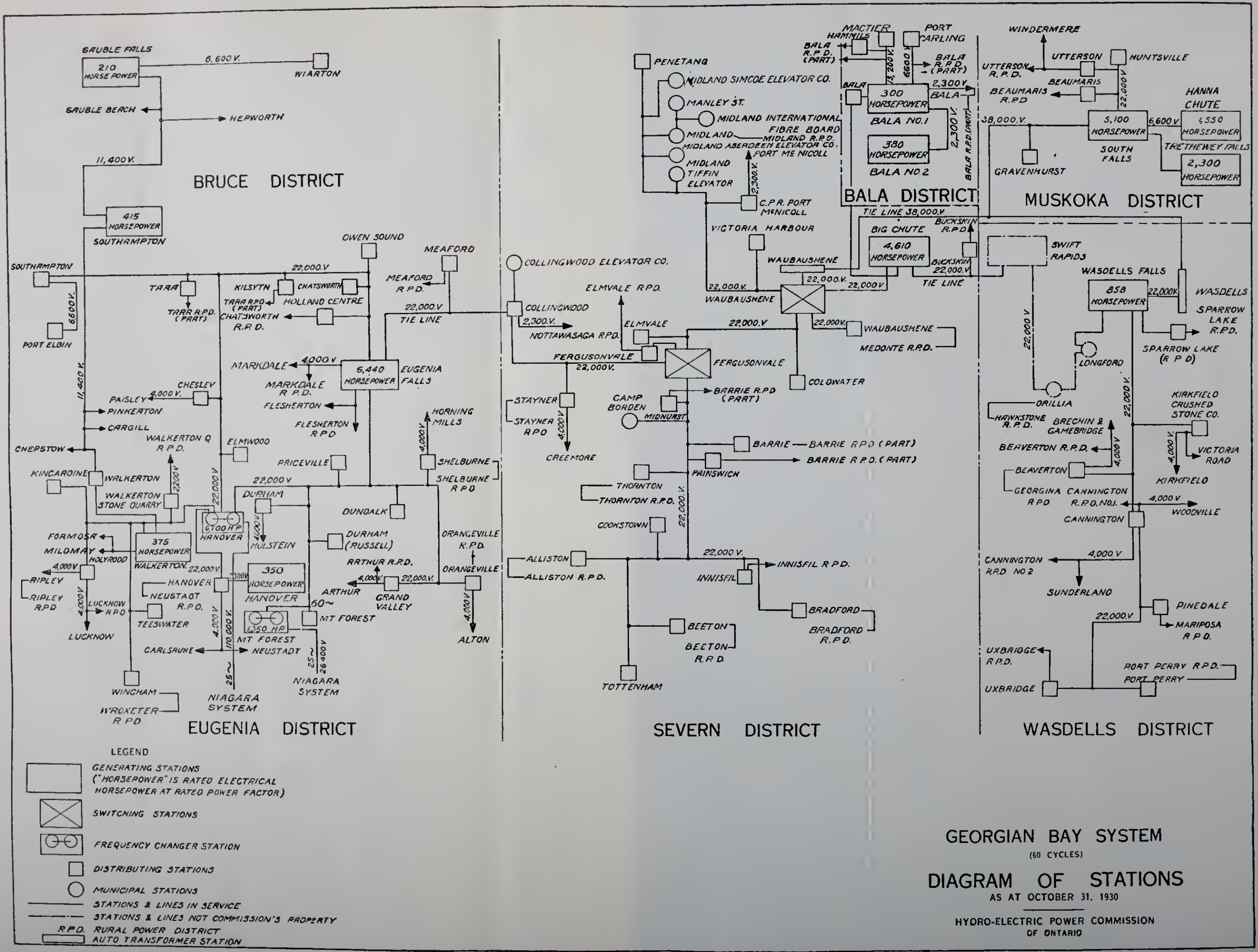
A new timber floor was laid on the deck of the headworks, and new steel trash racks provided to replace old wood racks. New stop logs at the head of the canal were provided.

Extensive repairs were made to the concrete of the Eugenia dam, and also to the concrete in the Wasdells power house and dam, the concrete in both cases having shown signs of disintegration.

A failure occurred in the armature winding of the No. 2 generator at Bala power house in July, and defective coils were replaced.

A new draft tube and curb ring for turbine were ordered for the No. 2 power house at Bala owing to the old draft tube showing defects, and the installation of the new parts was under way at the end of the fiscal year.

Highway alterations at numerous points on the various divisions made it necessary to erect a number of detours and to relocate and rebuild lines to conform with new highway locations.



GEORGIAN BAY SYSTEM

(60 CYCLES)

DIAGRAM OF STATIONS

AS AT OCTOBER 31, 1930

HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Extra pole guying was carried out on a number of line sections which have, in the past, been most affected by storms.

A number of line switches of modern design were erected in the Severn, Eugenia and Wasdells districts, replacing obsolete switches.

The usual program of line maintenance was carried out, which included pole treatment with preservative, insulator testing and replacement, straightening poles, pulling up guys, pole stubbing and tree trimming. Yearly inspection and routine maintenance on plant equipment was carried out by maintenance men at all plants, with special adjustment at several plants where required.

The plants and lines of the Public Utilities Consolidated Corporation in Bruce county, with the exception of a Diesel engine standby plant, were taken over by the Commission in September, 1930. This section will be known as the Bruce district of the Georgian Bay system.

To permit the removal of the Diesel engine by the owners and protect service to the customers, alterations were made at Southampton generating station and Southampton distributing station to provide service to the municipality of Port Elgin from the Eugenia lines, while the service to Wiarton and Hepworth was provided by one machine at Southampton hydraulic plant and the machine at Sauble Falls hydraulic plant.

A short 22,000-volt line was built from the line serving Kincardine to the Walkerton generating station, and a 750-kv-a. transformer station erected to step the line voltage down to the generator voltage of the power house. This tie line is to protect the service to Walkerton and district in case of water shortage at Walkerton power house.

GEORGIAN BAY SYSTEM—LOADS OF MUNICIPALITIES, 1928-1929-1930

Municipality	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
SEVERN DISTRICT					
Alliston	189.0	183.6	221.9	....	38.3
Barrie	1,878.5	1,978.4	2,285.6	....	307.2
Beeton	124.1	117.9	119.8	....	1.9
Bradford	134.0	133.5	135.3	....	1.8
Camp Borden	279.0	300.0	321.7	....	21.7
Coldwater	130.0	274.8	277.5	....	2.7
Collingwood	1,190.0	1,613.9	1,506.8	107.1	....
Cookstown	49.6	48.5	63.5	....	15.0
Creemore	94.3	116.6	101.9	14.7	....
Elmvale	158.7	148.8	160.8	....	12.0
Midland	4,190.3	3,559.0	3,115.2	443.8	....
Penetang	521.4	587.9	605.9	....	18.0
Port McNichol	82.4	84.4	88.4	....	4.0
Stayner	123.3	104.0	140.8	....	36.8
Thornton	29.0	26.8	23.6	3.2	....
Tottenham	59.5	70.2	76.8	....	6.6
Victoria Harbour	69.7	73.7	71.0	2.7	....
Waubaushene	39.4	37.2	40.9	....	3.7

GEORGIAN BAY SYSTEM—LOADS OF MUNICIPALITIES, 1928-1929-1930—Continued

Municipality	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
EUGENIA DISTRICT					
Arthur	103.2	116.6	121.1		4.5
Carlsruhe and Neustadt	99.2	30.0	41.5		11.5
Chatsworth	52.9	49.6	52.2		2.6
Chesley	395.4	412.8	428.9		16.1
Dundalk,	157.3	136.7	140.7		4.0
Durham	565.7	583.1	601.9		18.8
Elmwood	45.5	44.2	52.2		8.0
Flesherton	76.6	82.6	101.6		19.0
Grand Valley	107.2	110.7	99.2	11.5	
Hanover	914.2	960.3	1,136.7		176.4
Holstein	17.7	17.0	17.0		
Hornings Mills	8.0	8.0	8.0		
Kincardine	341.8	423.6	449.0		25.4
Lucknow	158.2	197.6	229.2		31.6
Markdale	140.2	150.9	139.9		11.0
Meaford	333.8	361.9	368.6		6.7
Mount Forest	286.8	312.3	384.7		72.4
Orangeville	473.5	522.3	576.7		54.4
Owen Sound	2,776.1	3,311.0	3,183.6	127.4	
Paisley	112.6	118.6	138.0		19.4
Priceville	11.5	14.2	15.4		1.2
Ripley	60.3	52.9	55.6		2.7
Shelburne	300.1	198.7	233.7		35.0
Tara	57.3	59.3	72.7		13.4
Teeswater	142.0	81.7	116.0		34.3
Wingham	319.0	422.2	392.2	30.0	
WASDELLS DISTRICT					
Beaverton	197.0	229.2	269.4		40.2
Brechin	52.2	50.9	52.0		1.1
Cannington	137.5	152.8	172.9		20.1
Kirkfield	22.0	33.5	35.1		1.6
Port Perry	161.2	171.5	240.4		68.9
Sunderland	61.0	53.6	63.0		9.4
Uxbridge	189.0	146.2	180.9		34.7
Victoria Road	9.7	10.0	11.4		1.4
Woodville	51.3	48.0	55.0		7.0
MUSKOKA DISTRICT					
Gravenhurst	538.8	565.7	553.0	12.7	
Huntsville	1,029.5	965.1	963.8	1.3	

GEORGIAN BAY SYSTEM—NEW MUNICIPALITIES

Municipality	Date connected	Load in horsepower		Change in load	
		Initial	Oct., 1930	Decrease	Increase
Windermere	June 30, 1930	33.5	26.8	6.7	

GEORGIAN BAY SYSTEM—RURAL POWER DISTRICT LOADS, 1928-1929-1930

Rural power district	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
SEVERN DISTRICT					
Barrie	38.4	61.8	159.3	....	97.5
Bradford	....	4.3	5.4	....	1.1
Buckskin	10.4	17.4	17.7	....	0.3
Elmvale	15.0	14.4	46.2	....	31.8
Innisfil	29.5	54.9	65.0	....	10.1
Nottawasaga	28.5	29.6	32.1	....	2.5
Stayner	36.2	43.4	45.5	....	2.1
EUGENIA DISTRICT					
Chatsworth	....	10.7	11.4	....	0.7
Flesherton	4.2	3.8	5.7	....	1.9
Markdale	0.5	0.5	1.6	....	1.1
Orangeville	30.0	16.3	27.8	....	11.5
Shelburne	2.8	4.3	4.9	....	0.6
Tara	15.0	28.7	54.8	....	26.1
Walkerton	1.5	1.5	1.5	....	....
Wroxeter	....	36.2	47.5	....	11.3
WASDELLS DISTRICT					
Cannington No. 1	17.0	19.0	19.0	....	....
Cannington No. 2	14.7	28.8	21.7	7.1	....
Georgina	33.5	33.5	36.2	....	2.7
Mariposa	67.7	101.8	131.3	....	29.5
Port Perry	22.0	64.0	78.6	....	14.6
Sparrow Lake	55.6	56.9	67.0	....	10.1
Uxbridge	8.0	34.4	85.8	....	51.4
MUSKOKA DISTRICT					
Beaumaris	41.5	50.9	87.1	....	36.2

GEORGIAN BAY SYSTEM—NEW RURAL POWER DISTRICTS

Rural power district	Date connected	Load in horsepower		Change in load	
		Initial	Oct., 1930	Decrease	Increase
Alliston	Nov. 13, 1929	25.0	74.2	....	49.2
Arthur	Dec. 11, 1929	1.2	1.2	....	....
Beaverton	Aug. 5, 1930	6.0	1.0	5.0	....
Hawkeston	July 14, 1930	38.7	45.1	....	6.4
Medonte	July 1, 1930	6.0	2.0	4.0	....
Thornton	Aug. 18, 1930	5.0	13.4	....	8.4
Utterson	June 30, 1930	46.9	9.4	37.5	....

EASTERN ONTARIO SYSTEM

This system incorporates the five systems formerly known as the Central Ontario and Trent, St. Lawrence, Rideau, Ottawa and Madawaska systems, and serves the entire eastern part of the Province. The combining of these systems has proved to be a decided betterment in respect of administration and operation, particularly so in the case of operation, in that all generated and purchased power is, with slight exception, now directly under the control of a central load despatcher, and the economic advantages are fully realized in the transfer of surplus and emergency power between the various districts forming the system. It might be well to note here that the interchange of power among these districts was made possible by the construction during the years 1928 and 1929 of a high tension line network extending to Ottawa, Smiths Falls, Brockville and Kingston. These lines do not extend as yet to the Madawaska district, and as there is no physical connection between that district and the balance of the Eastern Ontario system, the operation of the Madawaska district was carried on separately.

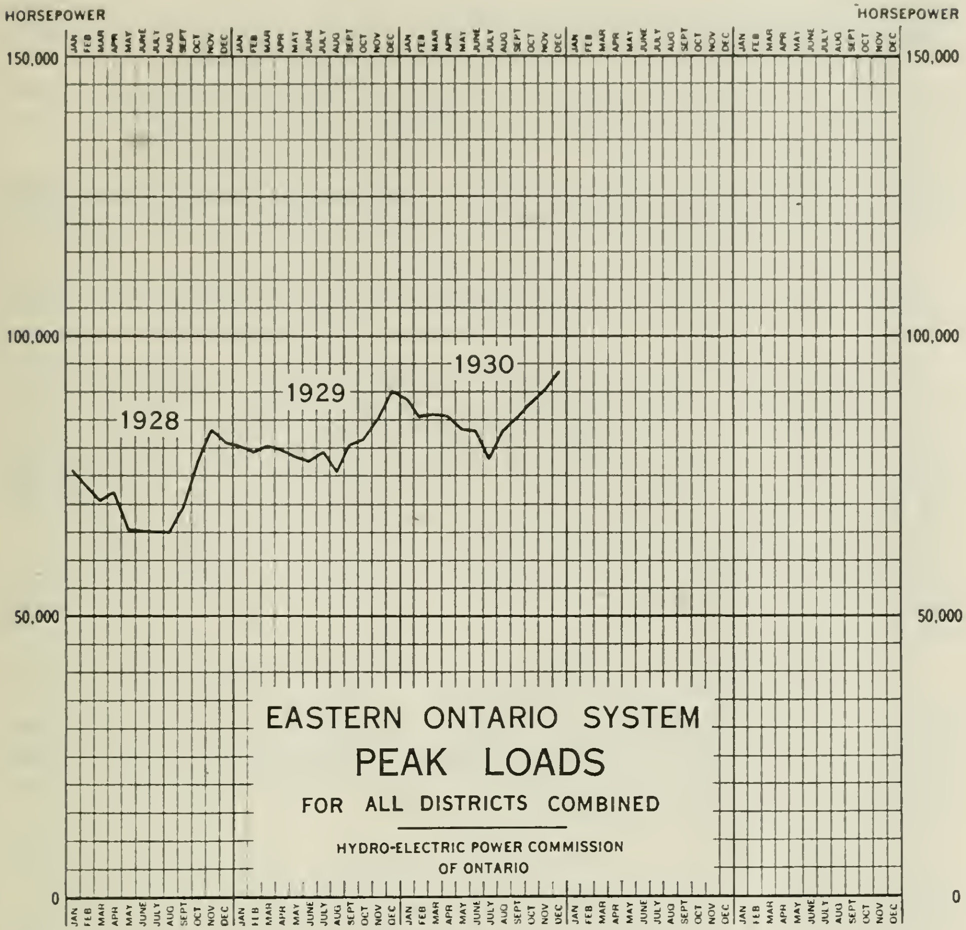
Operating conditions generally on the Eastern Ontario system have been satisfactory throughout the fiscal year. The demand for power has again shown an increase, which compares very favourably with the average increase of previous years, and is especially gratifying in view of the prevailing general business depression. For the purpose of comparison, a graph is shown herein which clearly illustrates the load growth on this system. This graph indicates the monthly 20 minute composite peak loads, and is not the sum of the individual district peaks which have appeared in previous issues of this Report.

During the year additional transformer capacity was installed at several of the transformer stations. The usual program of station and line maintenance was carried out. Appearances were improved at a number of transformer stations by painting the structures, levelling and grading the land and planting shrubs.

A timber dam was built at Bells rapids for the purpose of conserving water on Bark lake for use at Calabogie generating station during low stream flow periods on the Madawaska river.

Extensions were made to the 44,000-volt transmission lines for the purpose of supplying power to the Kingston elevators and the Lower Lakes Terminal elevators at Prescott. A single-circuit, 33,000-volt wood-pole line was constructed between Calabogie generating station and Burnstown, a distance of nine miles. The No. 4 A.C.S.R. conductors on the 33,000-volt line between Burnstown and Arnprior were replaced with 4/0 A.C.S.R. conductors. A single-circuit 33,000-volt wood-pole line was built from Arnprior to Chats Falls, a distance of approximately twelve miles, for the purpose of supplying power during the construction of the large power development at that point.

Telephone communication with the Madawaska district was established by means of looping the main Toronto-Ottawa telephone line into the Galetta generating station, at which point a small switchboard was installed. Telephone circuits were extended from this point to Arnprior and Calabogie and also to Chats Falls.



NOTE—The Eastern Ontario system includes the Central Ontario, St. Lawrence, Rideau, Ottawa and Madawaska districts, for which separate load graphs are given. The combined load of the total system, as shows on this graph, does not agree arithmetically with the sum of the district peaks due to the diversity in time at which the district peaks occurred.

At Ottawa a new transformer station, having a capacity of 9,000 kv-a., was first made alive on October 28, 1929, and was ready for regular service November 1. This station is at present supplied by one 110,000-volt circuit which taps the main line between Ottawa and Smiths Falls. A second 110,000-volt circuit is almost completed and will be placed in service at an early date. This station was built for the purpose of providing a supply of Gatineau power to meet the increasing load demand in the city of Ottawa and the immediate district.

At the Rideau District temporary station, which is located on the Smiths Falls high-tension transformer station site, the 300 kv-a. transformer was replaced with a 1,500 kv-a. 3-phase transformer which was placed in service on July 22. This transformer is supplied with power from the main 4,160-volt bus, steps the voltage up to 26,400 volts, and feeds into the 26,400-volt network at a nearby point. This makes power available from the Gatineau river and from other districts in the Eastern Ontario system, augmenting the Rideau district's own supply.

At Cataraqui a new transformer station, having a capacity of 300 kv-a., was placed in service on January 5, supplying power to the Kingston rural power district.

At Cardinal a new outdoor transformer station of 300 kv-a. capacity was placed in service July 5, supplying power to the village of Cardinal and rural customers in the district.

At Consecon a 100 kv-a. transformer station was built and placed in service on June 28 for the purpose of supplying power to the Wellington rural power district.

At the Howard Smith Paper Company's station near Cornwall, extensive improvements were carried out. In order to accommodate additional transformer capacity, an outdoor high-tension structure was added to the station. Two additional outdoor transformers, having a total capacity of 4,500 kv-a., together with the necessary relays and metering equipment, were installed and placed in service on June 29. Four air circuit-breakers were installed, two replacing the indoor high-tension transformer bank oil-breakers, and two on the secondaries of the new outdoor transformers. A storage battery was installed, replacing the dry cell batteries, as a source of tripping potential for the automatic circuit-breakers.

At Brockville one of the 750 kv-a. transformers was replaced by a 1,500 kv-a. transformer, bringing the total capacity of this station to 2,250 kv-a. The high-tension bus was extended to accommodate the new transformer. The low-tension bus was rebuilt. One of the 300-ampere transformer oil-breakers was replaced with a 600-ampere oil-breaker. The dry-cell tripping battery was replaced by a 12-cell storage battery.

At Napanee the 300 kv-a. transformer was replaced by a 750 kv-a. transformer. The capacity at this station is now 1,350 kv-a. The metering equipment was rearranged and a reactive kv-a. meter was installed.

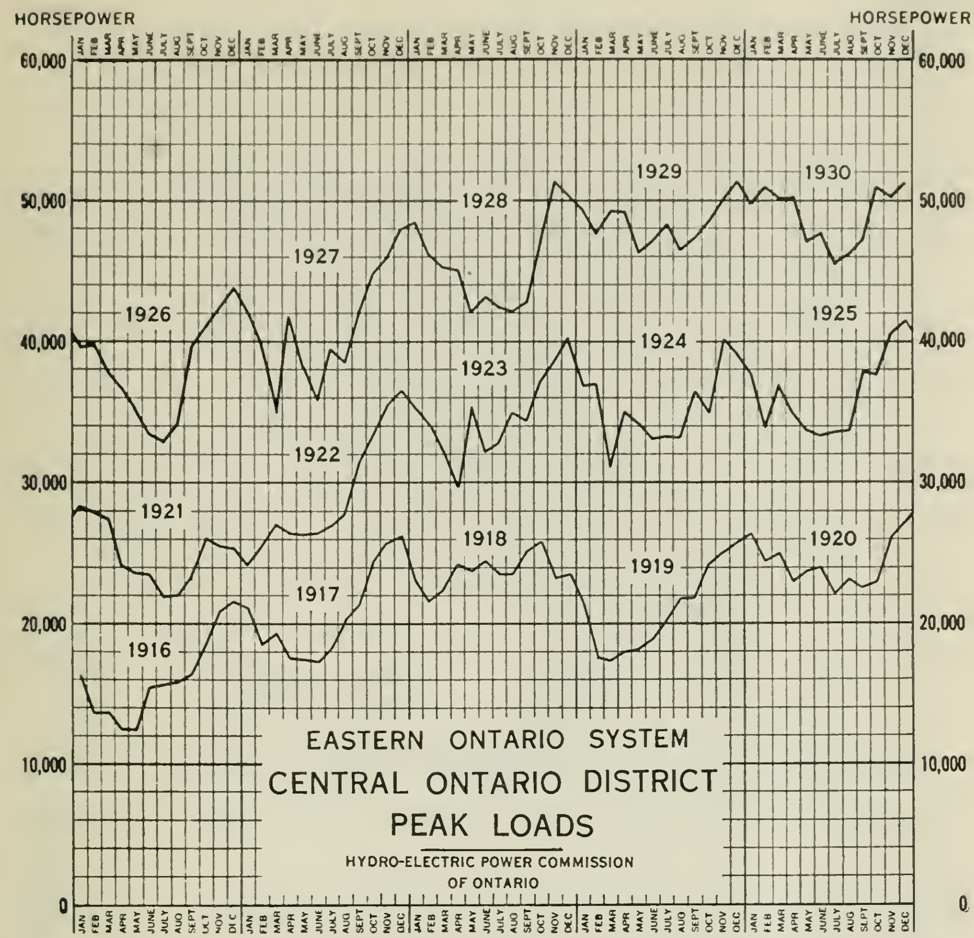
At Carleton Place a second bank, consisting of three single-phase 200 kv-a. transformers, was installed on February 10, thereby increasing the capacity of this station to 1,350 kv-a. A 12-cell storage battery, together with charging equipment, was also installed. Current transformers and ammeters were installed on both transformer banks.

At Perth a 750 kv-a. three-phase outdoor transformer was installed, replacing the bank of three 200 kv-a. single-phase indoor transformers. A polyphase watthour meter was installed on the totalizing metering equipment. The low-tension bus at this station was rebuilt.

At Arnprior a bank of three 500 kv-a. single-phase transformers was installed on April 18, the totalizing metering was rearranged and graphic meters were installed.

At Sidney plant, No. C2, extensive maintenance work was necessary. The governors were all overhauled. The turbines were all inspected and a quantity of driftwood removed from the runners. The lower guide bearing on the turbine exciter was rebabbited. All the low-tension oil-breakers were overhauled. The voltage regulator was overhauled. The floors in the power house were all painted.

At Sidney terminal station, which is the high-tension transformer station for plants No. C2 and No. C5, all the high-tension and low-tension oil-breakers

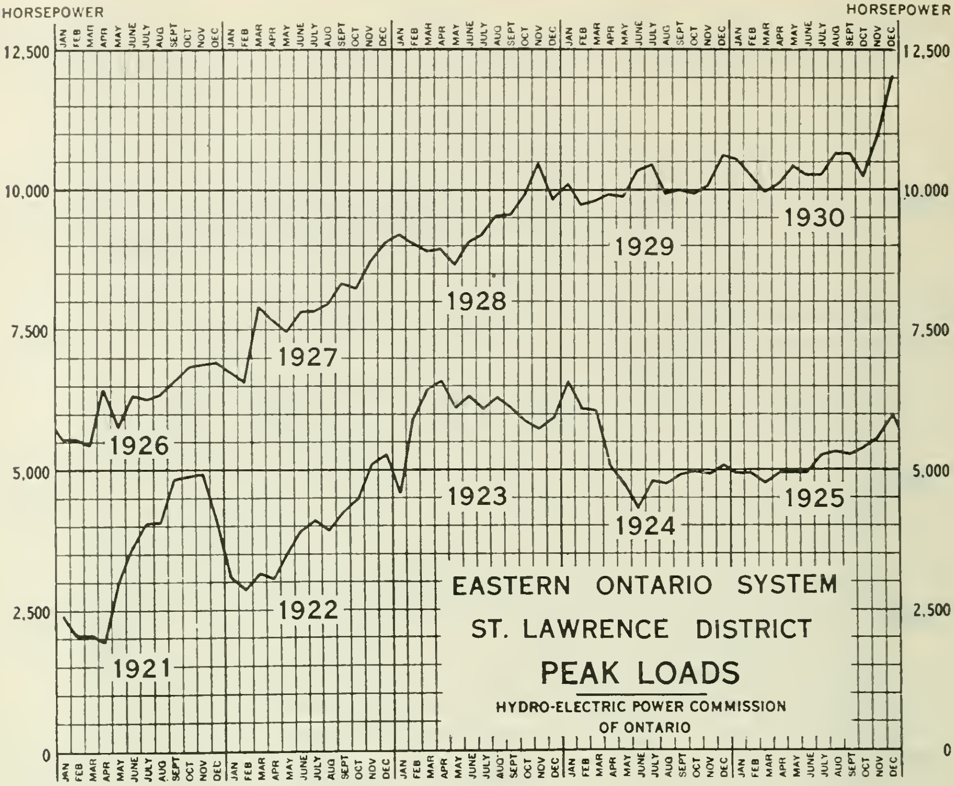


were thoroughly overhauled. All high-tension equipment in the station was inspected and repairs made where necessary. New totalizing graphic meters were installed on the 6,600-volt feeders to Trenton. The floors of the building and parts of the outdoor structure were painted.

At Frankford plant, No. C5, all the turbines were overhauled. A number of broken gates had to be replaced in each turbine. Repairs to the tailrace diversion wall, which was dangerously undermined for a considerable distance, were completed early in the year. The upper guide bearing on one of the generators had to be replaced. The low-tension oil-breakers and the electrolytic lightning arresters were overhauled.

At Meyersburg plant, No. C8, a general inspection was made of the turbines and hydraulic equipment, but no extensive maintenance was found necessary. All the high-tension oil-breakers were overhauled. Two defective insulators were replaced on one of the high-tension disconnecting-switches.

At Hagues Reach plant, No. C9, all three turbines were unwatered and inspected. The speed ring of one unit was replaced. The runner of this unit was eroded but satisfactory repairs were made by welding. All the high-tension

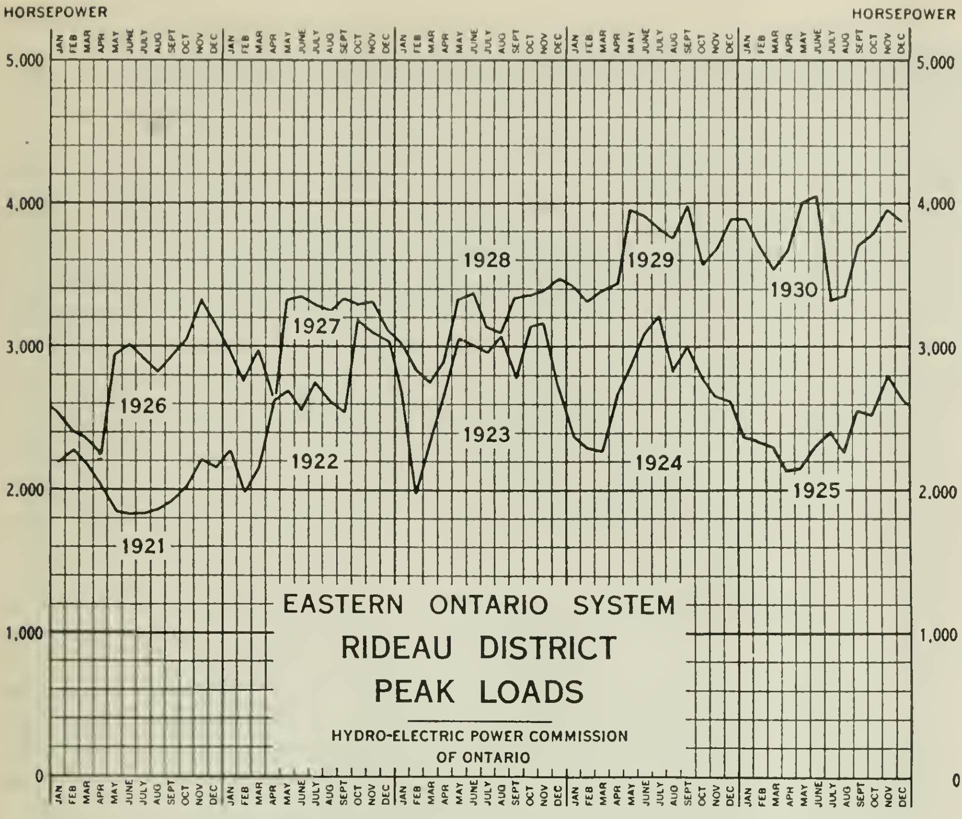


oil-breakers were overhauled. Defective insulators were replaced on the high-tension disconnecting-switches. A new enclosed type of storage battery was installed, replacing the defective battery which was installed when the plant was placed in service in 1925. A short length of the supervisory-control cable, which was in conduit underground, became defective and was replaced by an aerial cable. A considerable amount of painting was done in the power house.

The above two plants are of the automatic supervisory remote-controlled type, which involves a considerable number of relays in an operating sequence. A large number of these relays are necessarily delicate in their structure and it will be appreciated that a regular routine of test and adjustment is necessary. These plants have now been in service for more than five years and have operated very satisfactorily and economically.

At Ranney Falls, No. C10, the plant was unwatered and a thorough inspection of all hydraulic equipment made. The hydro cones of both turbines were inspected under water and both were found to be in good condition. A number of broken gate arms were removed from one turbine. A complete set of gate arms, of a new design having a bronze breaking pin, were installed in this turbine. Two defective guide bearings on one of the generators were rebabbited. All the low-tension oil-breakers and one high-tension oil-breaker were overhauled. Pulsating resistances were installed in the voltage regulators. The head gates and the floors of the generator room were painted.

At Seymour plant, No. C11, the forebay was unwatered and the racks cleaned. All turbines and governors were overhauled. A defective bearing



was replaced on the countershaft of one unit. The crown gears on two units were repaired. The outside of the upstream-wall of the power house was wire-brushed and treated with two applications of oil. All the high-tension oil-breakers and one set of electrolytic type high-tension lightning arresters were overhauled. The guide bearing of the turbine exciter was replaced on two occasions. The armature of the turbine exciter was rewound. One defective coil was replaced in one of the generators. Brakes were installed on all five generators. The station low-tension bus was rearranged, and a set of low-tension disconnecting switches installed between the bus and a new station-service feeder. New totalizing metering equipment and directional residual relays were installed. The high-tension neutral was grounded.

At Heely Falls plant, No. C14, all the turbines were unwatered and thoroughly inspected. A large quantity of driftwood was removed from two of the wheel pits. The front and rear glands of all turbines were repacked. A new water cooling coil was installed on the back bearing of one turbine. The relief valves on all units were overhauled. All the high-tension and low-tension oil-breakers and lightning arresters were overhauled. One defective coil was replaced on one of the generators. Three new 44,000-volt rotor-type air-break switches were installed on three of the outgoing high-tension lines. New synchronizing jacks were installed. A new section of control cable was installed between the switchboard and one of the high-tension oil-breakers. Extensive painting was carried out throughout the plant, including all steel sash. The rusted places of the penstocks were wire-brushed and painted. Extensive repairs were made to the slate roof.

At Auburn plant, No. C18, the forebay was unwatered and the racks cleaned. All governors were overhauled. All turbines were inspected and a considerably quantity of driftwood was removed from one of the wheel pits. Broken gates were replaced in two of the turbines A new regulating arm was installed on the exciter turbine. Twenty-four new stop-logs were framed and treated with preservative for use when unwatering the forebay. Twenty-four defective coils were replaced in one of the generators. The low-tension electrolytic lightning arresters were overhauled. At Auburn transformer station directional residual ground relays were installed. The high-tension electrolytic lightning arresters were overhauled. All the floors in the station were painted. At Auburn switching towers the high-tension oil-breakers were overhauled.

At Fenelon Falls plant, No. C30, one new high-tension coil and complete new insulation was installed in one of the air-blast transformers which failed in service,

At Calabogie generating station on the Madawaska river, the turbines were inspected and overhauled. New timbers were installed on the head gate. A general inspection was made of all high tension and low tension electrical equipment. A voltage regulator and line-drop compensator were installed and placed in service.

At Galetta generating station on the Mississippi river, a general inspection of all hydraulic and electrical equipment was made. One of the turbines and one governor were overhauled. Synchronizing equipment was installed.

At High Falls generating station on the Mississippi river, no extensive maintenance of hydraulic or electrical equipment was necessary. The iron bands on the penstock were all wire-brushed and painted. All the generators and exciters were thoroughly cleaned and one coat of compound applied. The power-house roof and the interior of the power house were painted.

At Belleville two defective low-tension lightning arresters were replaced. The high-tension oil-breaker was overhauled and one defective bushing was replaced.

At Belleville switching station two of the high-tension oil-breakers were overhauled on five separate occasions. Four of the old rotor-type disconnecting switches were replaced by new double-break disconnecting-switches. New type CR relays were installed on two of the high-tension lines.

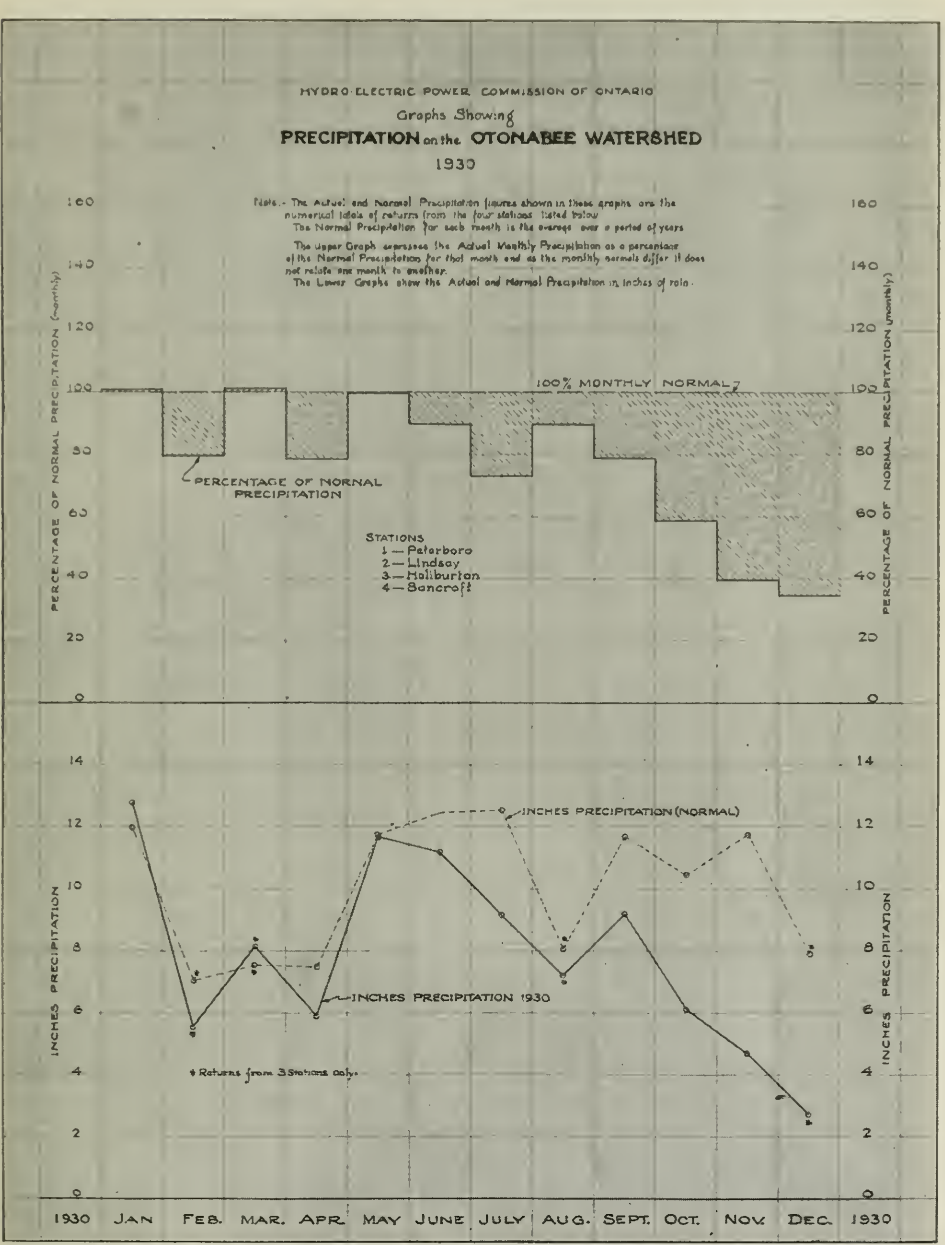
At Oshawa condenser station two indicating reactive kv-a. meters were installed. Type CO relays were installed, one for each condenser. The starter on the 1,000 kv-a. condenser was completely overhauled.

At Oshawa transformer station, No. 1, the high-tension and low-tension oil-breakers were overhauled. Voltage jacks were installed on the main and emergency bus potential transformers. Gravity-balance type kw. and r.-kv-a. meters were installed.

At Kingston switching station all the high-tension bus insulators were replaced. The 44,000-volt potential fuses were replaced by a more suitable type.

At Kingston transformer station three of the high-tension transformers were inspected, the cores, windings and water-cooling coils were thoroughly cleaned and the oil was changed in each transformer.

At Lakefield transformer station ground resistance measurements were made, eight new copper ground rods were installed and the ground connections were rearranged. The 6,600-volt lightning arresters were replaced by pellet type arresters. A 75-kw. transformer failed in service, was returned to the manufacturer for repairs, and reinstalled.



HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO
Graphs Showing
PRECIPITATION on the OTONABEE WATERSHED
1930

Note.- The Actual and Normal Precipitation figures shown in these graphs are the numerical totals of returns from the four stations listed below
The Normal Precipitation for each month is the average over a period of years
The upper Graph expresses the Actual Monthly Precipitation as a percentage of the Normal Precipitation for that month and as the monthly normals differ it does not relate one month to another.
The Lower Graphs show the Actual and Normal Precipitation in inches of rain.

PLATE A—PRECIPITATION DATA

The upper graph represents the estimated actual monthly precipitation on the Otonabee watershed expressed as a percentage of the normal precipitation.

The estimate is based upon the actual and normal return of the Meteorological Service for Peterboro, Lindsay, Bancroft and Haliburton,

Although the numerical values differ from month to month the normal precipitation is taken as 100 per cent., hence the solidly hatched areas represent the amount by which the precipitation exceeded the average while the dotted hatched area represents in a similar manner the deficiencies.

The lower graph shows the actual and normal precipitation in inches of rain.

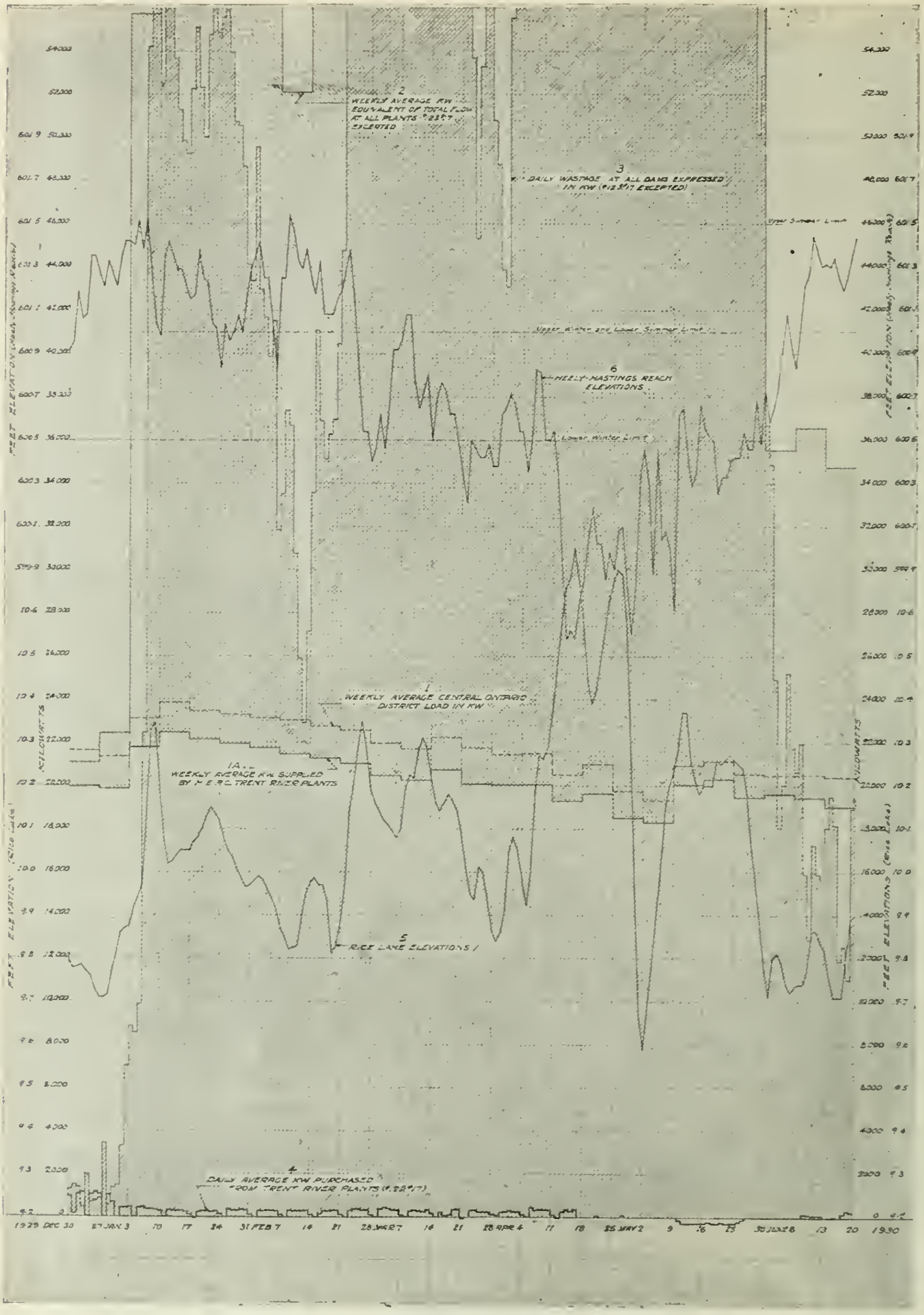


PLATE B1—GENERAL OPERATING DATA

December 20, 1929, to June 20, 1930

GRAPH No. 1—System average weekly load in kilowatts, which includes power purchased from the Gatineau Power Company and plants 12 and 17.

GRAPH No. 1a—Weekly average load in kilowatts supplied by H.E.P.C. plants on the Trent and Otonabee rivers.

GRAPH No. 2—Weekly average power equivalent of total flow at all dams, exclusive of 12 and 17. This equals the weekly average load supplied by H.E.P.C. plants only, plus the power equivalent of the weekly average wastage at these plants. This wastage is shown by the dotted hatched area between curves 2 and 1a.

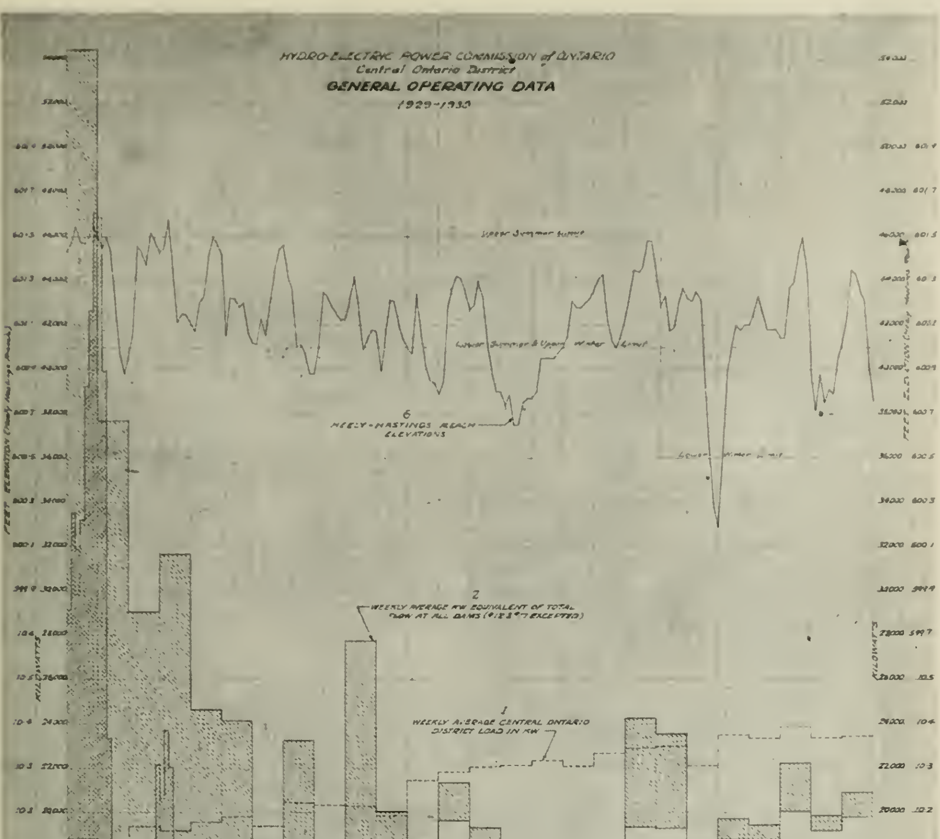


PLATE B2—GENERAL OPERATING DATA

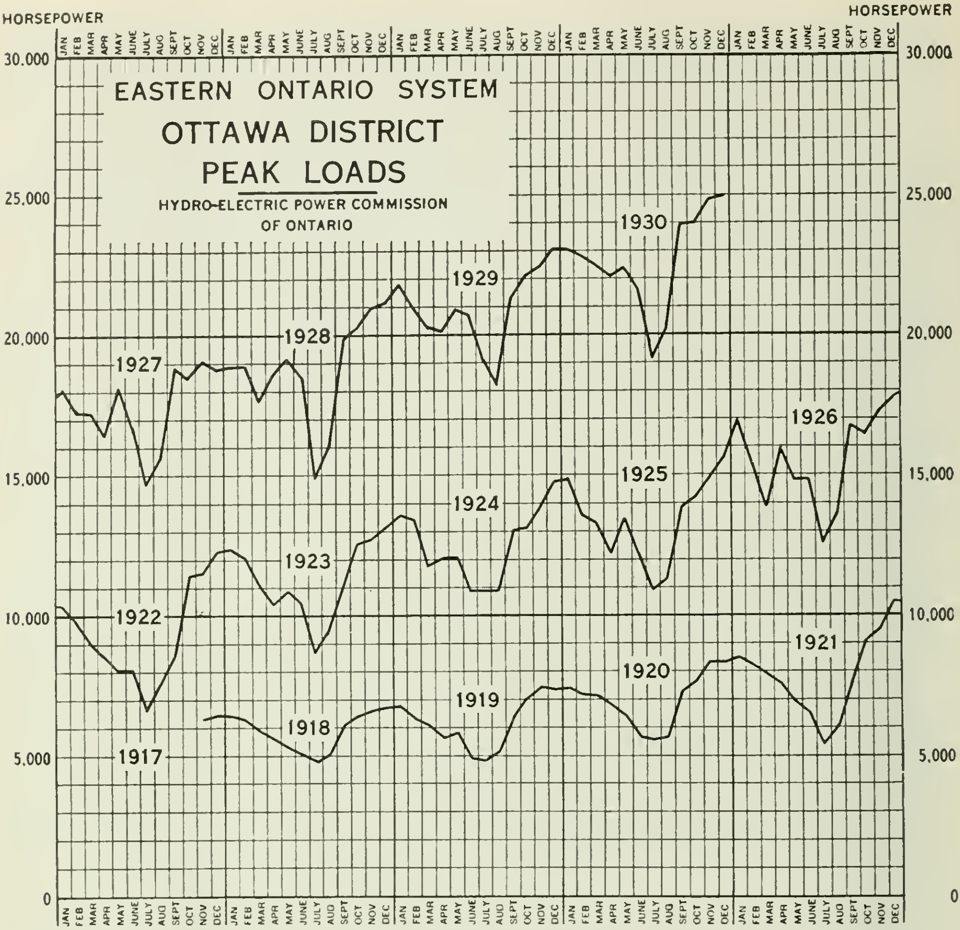
June 20, 1930, to December 19, 1930

GRAPH No. 3—Average daily wastage expressed in kilowatts at all dams, exclusive of dams 12 and 17. In the weekly aggregate the area under this graph equals the wastage represented by the hatched area between curves 2 and 1a.

GRAPH No. 4—Average daily power purchased from plants 12 and 17 in kilowatts.

GRAPH No. 5—Midnight elevations of Rice lake.

GRAPH No. 6—Midnight elevations of Heely-Hastings reach.



At Madoc a defective 44,000-volt roof-inlet bushing was replaced. The 44,000-volt electrolytic lightning arresters were overhauled.

At Newcastle a defective bushing was replaced in the 44,000-volt oil-breaker. The high-tension arresters were overhauled.

At Norwood switching station the 44,000-volt air-break switches were overhauled.

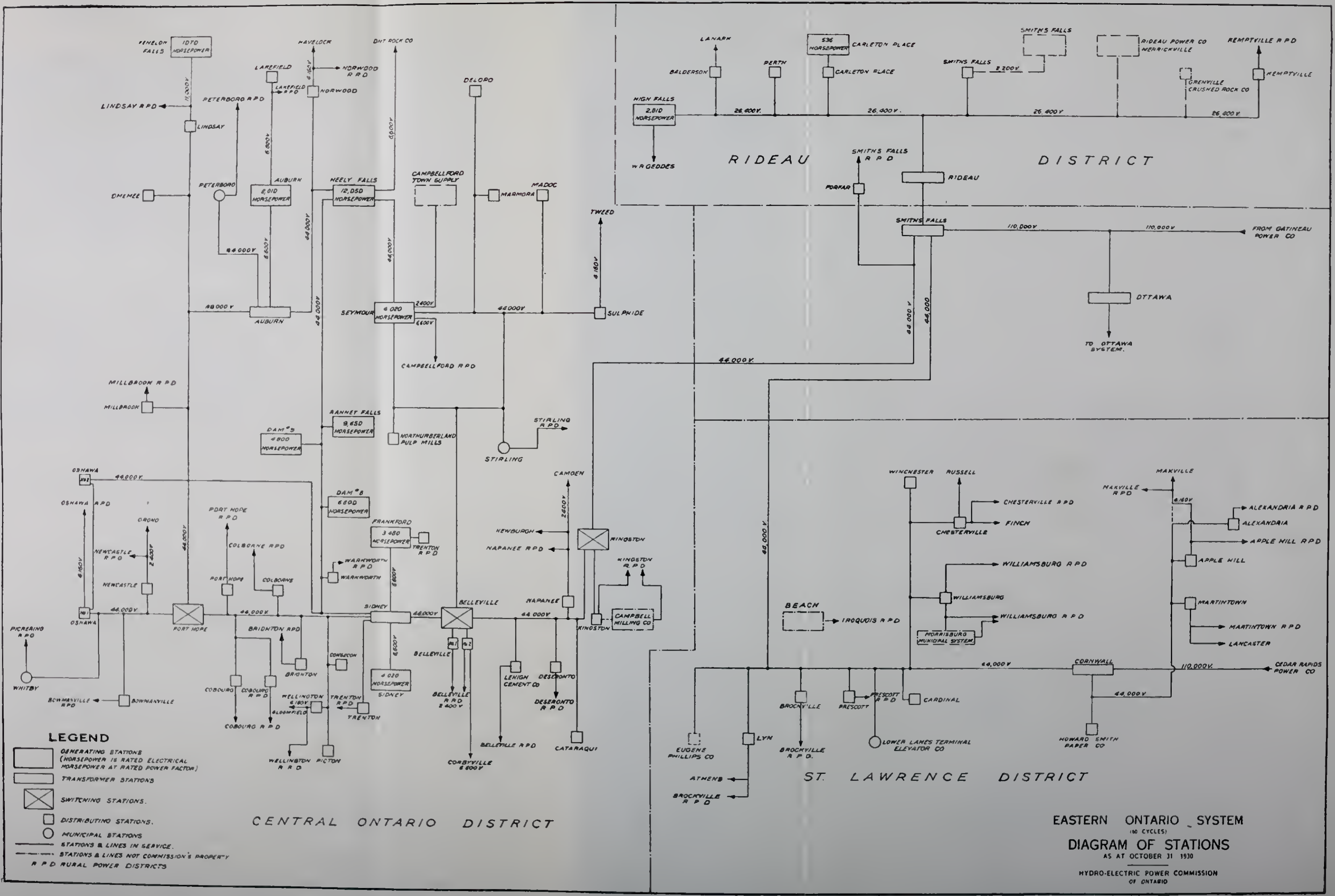
At Norwood transformer station new ammeters were installed on two of the low-tension feeders. The low-tension lightning arresters were overhauled.

At Apple Hill a new cover and new bushings were installed on the high-tension transformer. A standard chain link fence was built around the station property.

At Prescott the station roof and flashing was renewed, and the brickwork was repainted. Repairs were made to the switching structure.

At Morrisburg a small service building of frame construction was erected for the purpose of housing one of the maintenance trucks and storing a limited quantity of line maintenance material.

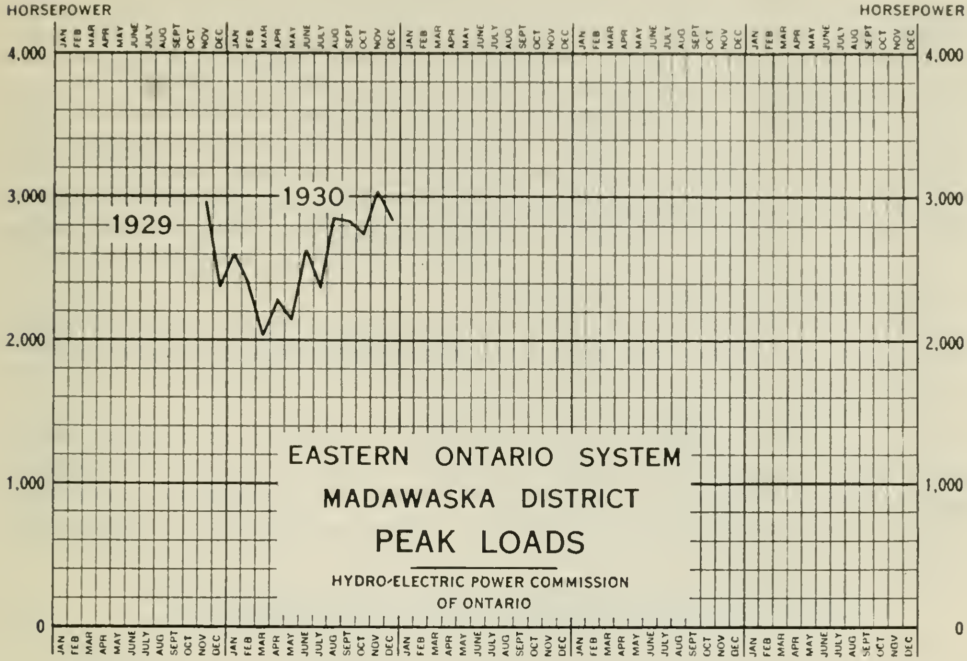
Work in connection with the inspection and maintenance of high-voltage transmission lines was actively carried out during the year. A number of



EASTERN ONTARIO SYSTEM
(60 CYCLES)

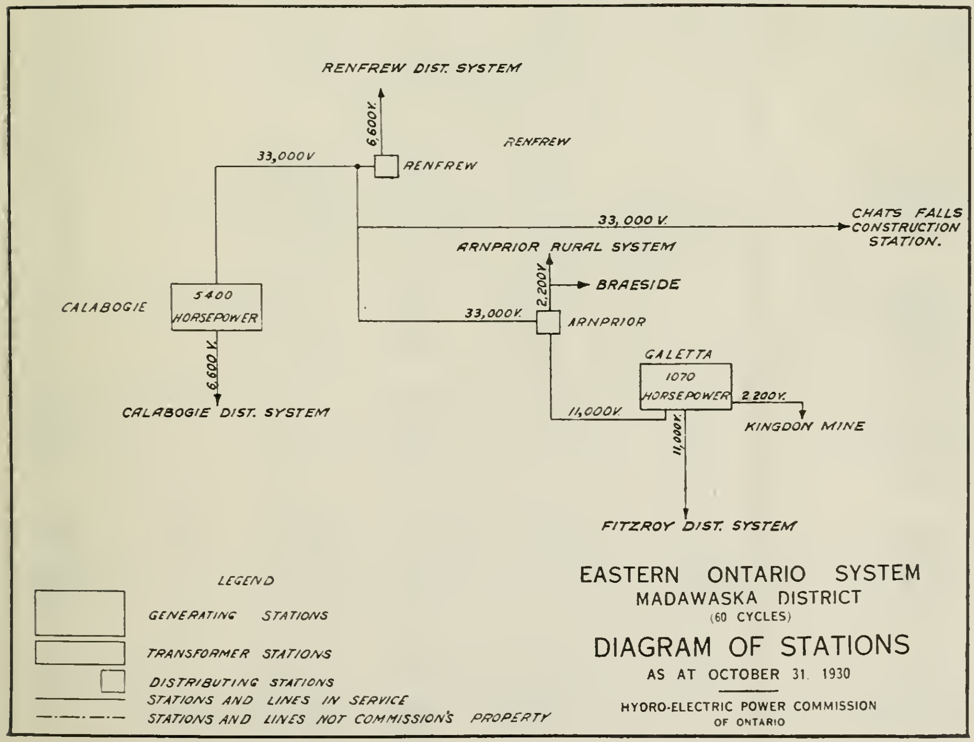
DIAGRAM OF STATIONS
AS AT OCTOBER 31 1930

HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO



EASTERN ONTARIO SYSTEM
MADAWASKA DISTRICT
PEAK LOADS

HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO



EASTERN ONTARIO SYSTEM
MADAWASKA DISTRICT
(60 CYCLES)

DIAGRAM OF STATIONS
AS AT OCTOBER 31. 1930

HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO

poles were stubbed on the 44,000 and 26,400-volt lines. During the year over 27,000 pin-type insulators were inspected, 4,700 of which were found to be defective and were replaced. A large number of defective cross arms and pins were replaced. An air-break switch was installed on the 110,000-volt line at Richmond. Four air-break switches of an improved type were installed on the 26,400-volt lines. These switches will greatly facilitate the work in locating and isolating a defective line section. The usual amount of tree trimming was done. New platforms were constructed and other improvements were made at several of the high-tension switching structures. Several miles of low-tension line were constructed at different points for the purpose of transmitting power into rural power districts.

The Belleville machine and meter repair shop has again been very active throughout the year. The work has included the testing and repairing of various types of meters, and the fabrication of electrical apparatus and replacement parts required in power plant maintenance.

An extensive programme of field work was carried out by the Meter department during the year. This department is responsible for the installation and maintenance of all metering equipment and relays on this system. Assistance has been rendered throughout the year to various municipalities, local systems and private companies in connection with technical problems in the field.

EASTERN ONTARIO SYSTEM—CENTRAL ONTARIO DISTRICT
LOADS OF MUNICIPALITIES—1928-1929-1930

Municipality	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
Belleville	3,121.1	3,551.5	3,539.7	11.8	
Bloomfield	114.6	101.2	121.0		19.8
Bowmanville	1,792.2	1,724.4	1,766.4		42.0
Brighton	242.6	265.4	274.2		8.8
Cobourg	1,267.7	1,361.7	1,383.0		21.3
Colborne	152.4	168.9	190.6		21.7
Deseronto	164.9	152.8	181.3		28.5
Havelock	250.6	220.9	228.5		7.6
Kingston	3,912.5	4,221.8	4,451.8		230.0
Lakefield	182.9	192.3	225.6		33.3
Lindsay	1,678.3	1,522.7	1,662.3		139.6
Madoc	135.0	142.6	168.9		26.3
Marmora	92.7	86.6	87.6		1.0
Millbrook	64.3	68.6	85.6		17.0
Napanee	931.7	957.5	1,009.8		52.3
Newburg	396.8	236.0	45.5	190.5	
Newcastle	71.1	72.9	82.0		9.1
Norwood	124.8	142.5	168.7		26.2
Omemee	50.1	72.9	74.4		1.5
Orono	47.3	165.7	60.9	104.8	
Oshawa	8,659.5	8,880.7	8,706.4	174.3	
Peterborough	6,097.0	6,271.0	6,400.2		129.2
Picton	737.2	892.7	804.3	88.4	
Port Hope	1,112.6	1,207.7	1,331.6		123.9
Stirling	261.4	282.8	252.5	30.3	
Trenton	1,906.9	2,610.6	2,731.6		121.0
Tweed	209.1	214.5	197.0	17.5	
Warkworth	54.9	57.6	69.9		12.3
Wellington	133.8	144.0	201.0		57.0
Whitby	1,000.8	958.5	1,020.1	61.6	

EASTERN ONTARIO SYSTEM—CENTRAL ONTARIO DISTRICT RURAL POWER DISTRICT LOADS—1928-1929-1930

Rural power district	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
Belleville	159.4	170.4	240.4	....	70.0
Bowmanville	4.0	4.9	56.7	....	51.8
Campbellford	56.3	54.7	54.7	....	....
Cobourg	24.5	110.1	122.3	....	12.2
Colborne	45.1	44.2	67.0	....	22.8
Kingston	39.2	51.6	151.3	....	99.7
Lakefield	1.0	1.0	1.0	....	....
Newcastle	12.5	14.5	47.1	....	32.6
Napanee	2.0	5.0	103.4	....	98.4
Norwood	....	5.3	9.7	....	4.4
Oshawa	324.5	397.4	372.6	24.8	....
Peterborough	359.4	424.7	434.4	....	9.7
Pickering	97.0	127.3	139.4	....	12.1
Port Hope	24.1	22.8	47.7	....	24.9
Trenton	10.0	10.0	12.4	....	2.4
Warkworth	....	1.0	2.5	....	1.5
Wellington	11.3	16.0	108.8	....	92.8

EASTERN ONTARIO SYSTEM—CENTRAL ONTARIO DISTRICT NEW RURAL POWER DISTRICTS, 1930

Rural power district	Date connected	Load in horsepower		Change in load	
		Initial	Oct., 1930	Decrease	Increase
Brighton	Nov. 1, 1929	11.3	14.0	....	2.7
Deseronto	Mar. 4, 1930	1.0	1.0	....	....
Millbrook	July 4, 1930	27.2	27.0	0.2	....
Stirling	Nov. 1, 1929	2.0	26.3	....	24.3
Lindsay	July 12, 1930	2.0	....	2.0	....

EASTERN ONTARIO SYSTEM—ST. LAWRENCE DISTRICT LOADS OF MUNICIPALITIES—1928-1929-1930

Municipality	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
Alexandria	232.1	214.7	260.9	....	46.2
Apple Hill	30.0	28.0	27.5	0.5	....
Athens	....	70.7	87.9	....	17.2
Brockville	1,732.9	1,954.5	2,220.2	....	265.7
Chesterville	248.0	167.5	198.4	....	30.9
Finch	30.5	38.1	50.0	....	11.9
Lancaster	37.6	44.9	67.4	....	22.5
Martintown	17.5	25.2	27.5	....	2.3
Maxville	50.0	52.2	58.0	....	5.8
Prescott	570.6	682.7	882.5	....	199.8
Russell	61.5	50.2	72.4	....	22.2
Williamsburg	37.4	35.3	37.3	....	2.0
Winchester	182.3	198.4	212.3	....	13.9

EASTERN ONTARIO SYSTEM—ST. LAWRENCE DISTRICT NEW MUNICIPALITIES

Municipality	Date connected	Load in horsepower		Change in load	
		Initial	Oct., 1930	Decrease	Increase
Cardinal	July 4, 1929	53.6	112.6	....	59.0

EASTERN ONTARIO SYSTEM—ST. LAWRENCE DISTRICT RURAL POWER DISTRICT LOADS—1928-1929-1930

Rural power district	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
Apple Hill	22.0	28.6	*	....	....
Brockville	47.2	59.2	406.3	....	347.1
Chesterville	51.3	82.2	104.4	....	22.2
Martintown	28.2	42.2	46.5	....	4.3
Maxville	0.7	0.7	91.1	....	90.4
Prescott	56.7	69.0	85.3	....	16.3
Williamsburg	2.0	8.4	20.6	....	12.2

*Absorbed by Maxville R.P.D.

EASTERN ONTARIO SYSTEM—ST. LAWRENCE DISTRICT NEW RURAL POWER DISTRICTS, 1930

Rural power district	Date connected	Load in horsepower		Change in load	
		Initial	Oct., 1930	Decrease	Increase
Alexandria	Dec. 5, 1929	7.6	15.2	....	7.6
Iroquois	July 1, 1930	375.0	375.0	....	....

EASTERN ONTARIO SYSTEM—RIDEAU DISTRICT LOADS OF MUNICIPALITIES—1928-1929-1930

Municipality	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
Carleton Place	749.3	879.9	843.1	36.8	....
Kemptville	174.9	217.7	241.3	....	23.6
Lanark	49.8	56.0	61.6	....	5.6
Perth	725.2	774.8	891.4	....	116.6
Smiths Falls	1,292.2	1,410.2	1,615.3	....	205.1

EASTERN ONTARIO SYSTEM—RIDEAU DISTRICT RURAL POWER DISTRICT LOADS—1929 AND 1930

Rural power district	Peak load in horsepower		Change in load	
	Oct., 1929	Oct., 1930	Decrease	Increase
Smiths Falls	76.0	137.3	....	61.3

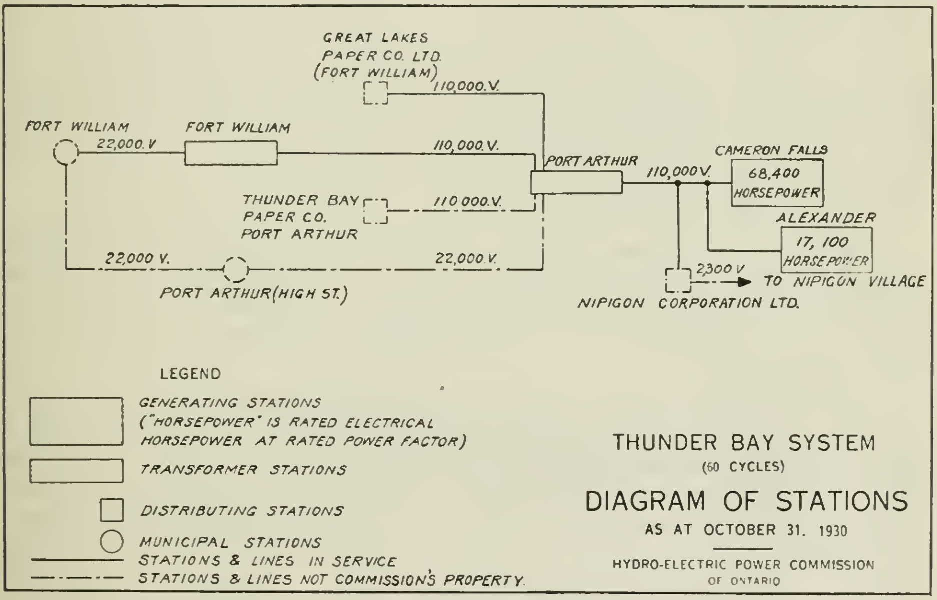
EASTERN ONTARIO SYSTEM—OTTAWA DISTRICT
LOADS OF MUNICIPALITIES—1928-1929-1930

Municipality	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
Ottawa	20,241.0	22,079.0	24,047.4	....	1,968.4

Note.—Nepean rural power district and Richmond included in Ottawa load to the extent of 282 horsepower for October, 1928, 375.3 horsepower for October, 1929 and 450.4 horsepower for October, 1930.

THUNDER BAY SYSTEM

The load on the Thunder Bay system during the past fiscal year has been very similar to that existing during the preceding year, the total energy generated and the peak load for the year being slightly greater, but the average peak being about 2.5 per cent less during 1930 than in 1929. While the load has continued at this same level there has been no restriction of power supply to any of the Commission's customers on this system. The Nipigon Corporation pulp mill at Nipigon has not been operating during the year.



THUNDER BAY SYSTEM
(60 CYCLES)
DIAGRAM OF STATIONS
AS AT OCTOBER 31. 1930
HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

The transmission capacity of the 110,000-volt lines has been materially augmented during the year by the erection of the second power circuit on the tower line between Cameron Falls generating station and Port Arthur transformer station. This circuit was placed in service on February 2, 1930, and there are now three circuits between these points, giving an increased guarantee of continuous service.

The new dam in the Nipigon river at Alexander generating station was placed in service on September 28, 1930.

Number 3 generator unit and temporary auxiliary equipment were placed in service at Alexander generating station on October 21, 1930.

No new equipment was placed in operating service in the Cameron Falls generating station or at Fort William transformer station, but a new 110,000-volt breaker (for the third incoming line) was placed in service at Port Arthur transformer station on January 12, 1930.

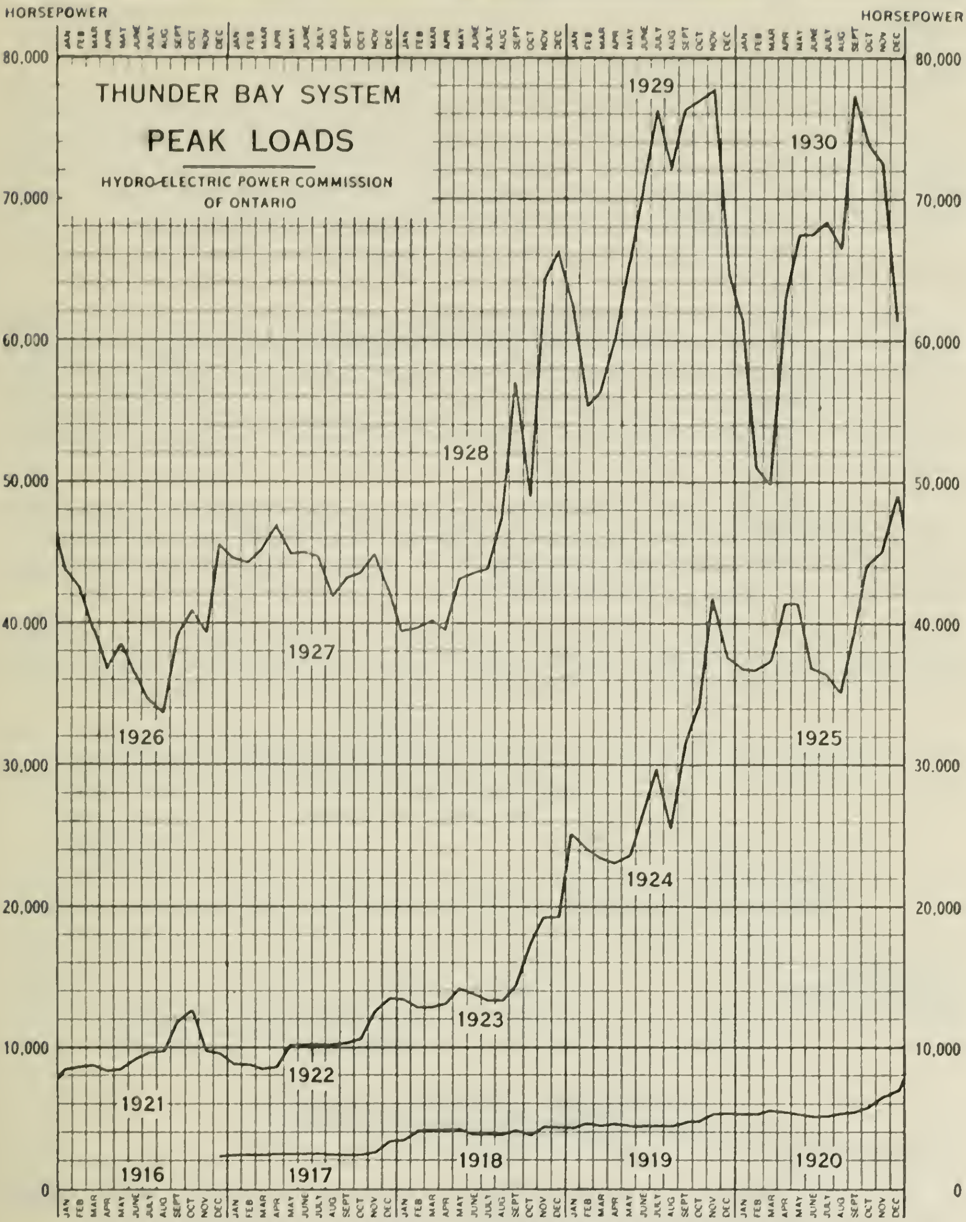
In the interests of convenient power interchange between the Thunder Bay system and the Kaministiquia Power Company's system, a tie at 22,000 volts has been arranged. This consists of a short length of 22,000-volt circuit from the Commission's Fort William transformer station, erected on poles belonging to the Hydro-Electric Commission of Fort William, which connects through an air-break switch directly to one of the main circuits between the Kaministiquia Power Company's generating station at Kakabeka Falls and its Fort William terminal station. This interconnection was placed in service on February 11, 1930.

There was no major hydraulic maintenance work done during the year. The auxiliary equipment, however, has been carefully gone over and is in first class operating condition. Special attention was paid to the overhauling and adjustment of the governors.

Only minor maintenance work was done to any generator during the year. The main power transformers at Cameron Falls generating station and at Port Arthur transformer station, with one exception, have been disassembled, thoroughly cleaned and reassembled during the year, leaving them in first class operating condition. There remains one transformer at Cameron Falls generating station to be completed, as this transformer is being equipped with a new 12,000-volt winding of improved design. Emergency bus connections have been provided at Port Arthur transformer station whereby the spare transformer may readily be connected in service to replace any unit of either bank, without moving it, which eliminates temporary oil and water connections.

The 110,000-volt circuit-breakers at Cameron Falls generating station have been overhauled and adjusted during the year. One bushing on each of three breakers at this station failed during the year. There has also been a failure of a bushing on a breaker on one of the 22,000-volt feeders out of Port Arthur transformer station.

The service obtained from the transmission lines during the year has been very good. The two system interruptions during the year have been due to failures of bushings in the 110,000-volt oil-breakers at Cameron Falls generating station. Flashovers, during thunderstorms on one transmission circuit have been responsible for two interruptions to Nipigon Corporation station, while the third interruption was due to the failure of a bushing in a 110,000-volt oil-breaker at Cameron Falls generating station. The Great Lakes Paper Company station and Fort William transformer station each had one interruption during the year, due to flashovers on their respective 110,000-volt transmission lines from Port Arthur transformer station. Some changes in the power transpositions in the wood-pole circuit were made during the year at the instance of the Canadian Pacific railway and Canadian National railways, whose communication circuits are closely paralleled by these transmission lines. Maintenance work has been done on these wood-pole lines in tightening guys and treating the poles at the ground line. Brush was cut along certain sections of the right-of-way.



The Port Arthur transformer station has had no curtailment of service to any customer due to failures of equipment. New foundations have been placed for a number of the supporting columns of the steel framework of the station, and also for several of the 110,000-volt breakers, without interfering with service. The relay and breaker equipment has operated satisfactorily during the year.

The Fort William transformer station also has had no failures of equipment or incorrect functioning of relays or breakers. Some slight addition to the feeder equipment has been made, to permit of synchronizing around the tie breaker when paralleling with the Kaministiquia Power Company's system, and the metering arrangement has also been improved.

The precipitation in the watershed supplying this system has been relatively light during the year, and there has been very little water spilled (wasted) over the power house dam. The heavy load on the system has required a correspondingly large flow in the river. The level of lake Nipigon has been drawn down to its lowest value since the regulating dam at Virgin Falls was built.

Radio Communication

The two short-wave experimental radio stations at Cameron Falls and Toronto have been in service all year. Communication between the two stations was fairly reliable throughout the year, there being only a few days in each month when conditions were not satisfactory. Considerable trouble from outside interference has been experienced at Toronto, and various attempts to eliminate or avoid this were made.

During the year the transmitter at Toronto was completely overhauled and rebuilt, using an improved circuit. This has resulted in improved efficiency and more stable operating conditions. No special maintenance work was required at the Cameron Falls station.

Now that a similar station has been placed in operation at Ear Falls generating station, Patricia district, the Cameron Falls station can be used as a means of relaying messages between Toronto and the above station.

THUNDER BAY SYSTEM—LOADS OF MUNICIPALITIES, 1928-1929-1930

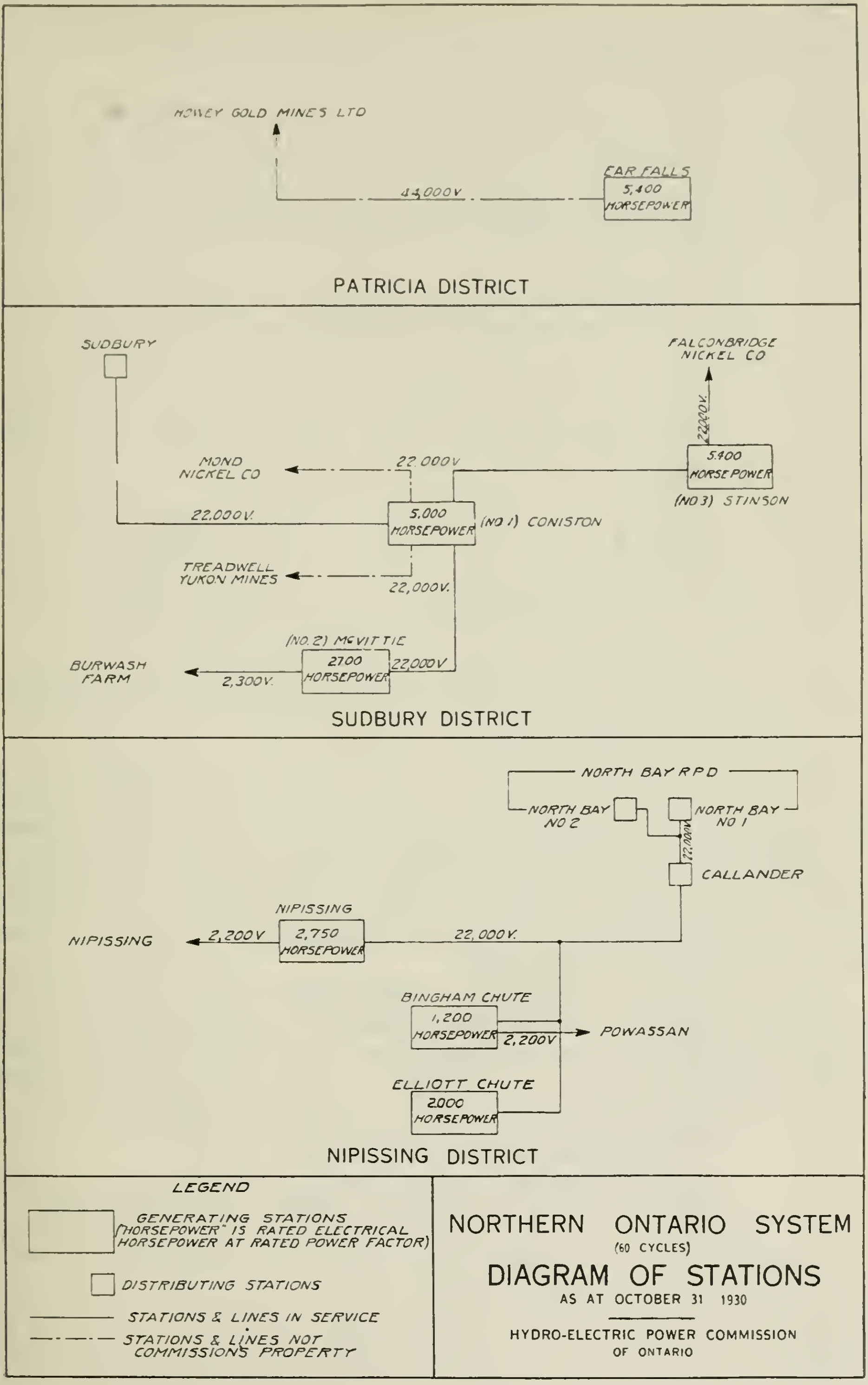
Municipality	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
Fort William	10,556.2	9,966.5	10,596.5	....	630.0
Nipigon Township	56.2	57.6	65.7	....	8.1
Port Arthur	27,839.1	41,863.2	38,619.4	3,243.8	....

NORTHERN ONTARIO SYSTEM

Nipissing District

The peak load in the Nipissing district shows an increase of six per cent, and the average load an increase of four per cent, over the previous year.

Numerous changes and additions were made to the telephone layout in this district, which included the installation of telephone and protective equipment at North Bay station, Z9, the installation of new protective equipment at North Bay station, Z4, the restringing of the telephone line from Callander to North Bay with No. 6 A.C.S.R. conductor, the extension of the telephone system to Elliott Chute power house and operator's cottage, and the installation of a telephone exchange and rearrangement of lines at Bingham Chute power house. Since the Elliott Chute power house has been in operation, the operation of the system is directed from Bingham Chute power house.



NORTHERN ONTARIO SYSTEM
(60 CYCLES)

DIAGRAM OF STATIONS
AS AT OCTOBER 31 1930

HYDRO-ELECTRIC POWER COMMISSION
OF ONTARIO

The Elliott Chute plant, which went into service under manual control in October, 1929, was made automatic and placed under remote control from Bingham Chute during the present year.

Owing to a particularly dry fall in 1929, the supply of storage water, and consequently the river flow, was much reduced and it was necessary to curtail loads from about December 20 to January 8, 1930, when a thaw gave relief. Street lights were cut off at certain times, and sign lights partly cut off. Part of the North Bay pumping load was carried by a gasoline-driven pump, while part of the Temiskaming and Northern Ontario Railway plant load was carried by its own steam auxiliary plant.

A leak developed in the earth section of the new Elliott Chute dam in the fall of 1929, which was apparently caused by a spring. Three wells were sunk to collect the water from this leak and tile laid to drain the water away. Sheet piling was also driven in the dam as a reinforcement. In the spring of 1930 while the frost was coming out of the earth and at a time when the head of water was comparatively high on the dam, a washout occurred in this earth section which required that the head on the dam be lowered and considerable new fill had to be placed in the holes caused by the washout.

Lightning arresters were installed on the three-phase feeder to the surge tank, on the Nipissing village feeder at Nipissing power house, and on the 2,300-volt bus and the Powassan feeder at Bingham Chute power house. These arresters were installed for the purpose of trying to prevent lightning surges coming in over the low-tension feeders and damaging the generators.

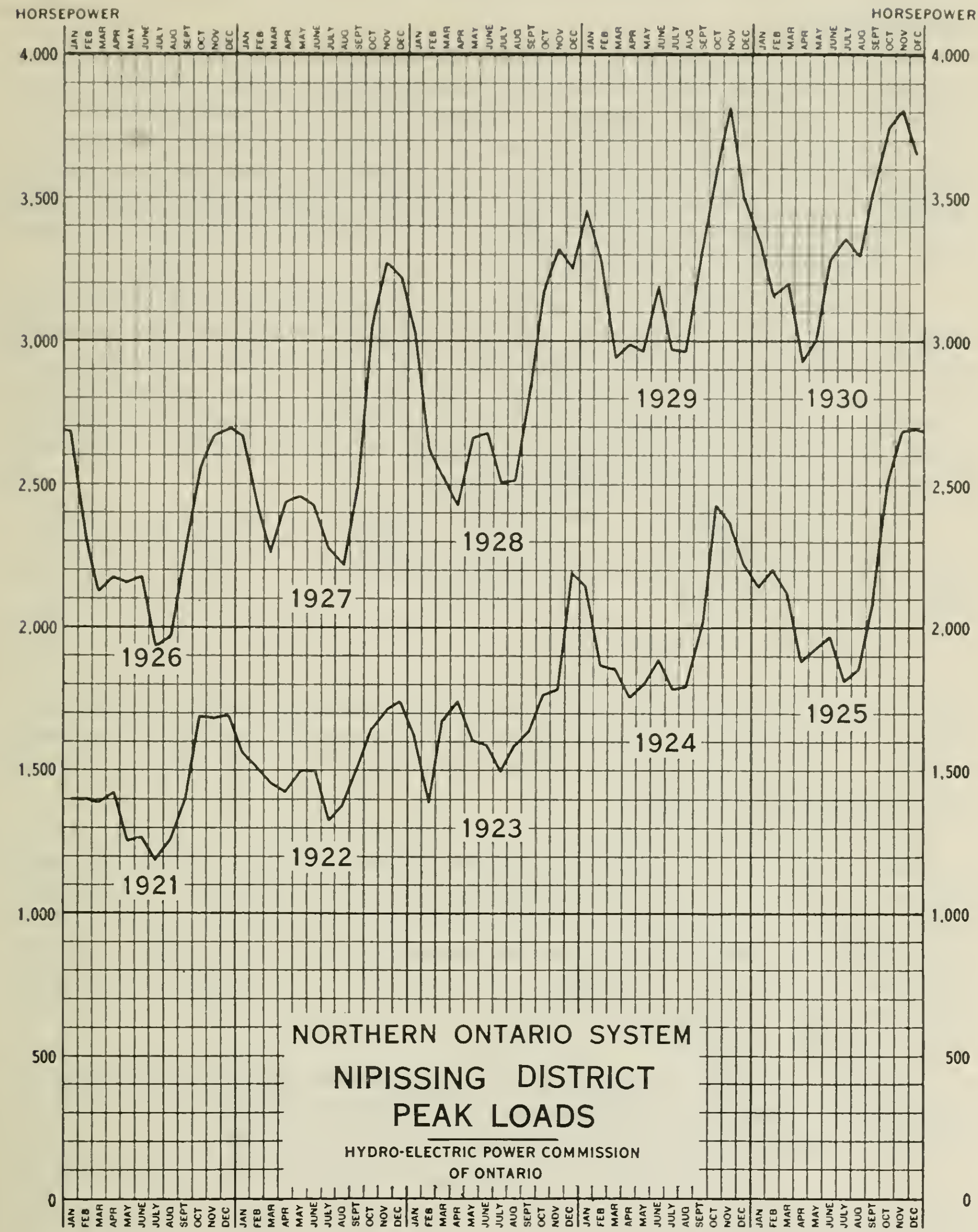
Inspection of the turbines at all three power houses was made, and all found in good condition. The inside of the turbines, the draft tubes, distributor pipe, thimbles and trash racks were painted at Bingham Chute and repairs made to the aprons in the sluiceways.

Extensive changes were required to the double circuit 22,000-volt lines in the vicinity of Callander owing to a siding built by the Canadian National railways, and due to relocation of the Ferguson highway. Due to the relocation of the highway it was necessary to detour the lines to avert damage during blasting, and to relocate them after the highway was completed. A section of line was restrung with new cable and longer poles erected at this point at the same time. Changes for a crossing were also made at the request of the Bell Telephone Company at another point.

A new concrete sluiceway and waste weir were constructed at Craig Lake dam, also a permanent retaining crib. This new sluiceway replaces the old wooden sluiceway, which was the weakest part of the dam and which has been filled in. Extensive repairs were carried out at several other storage lake dams.

NORTHERN ONTARIO SYSTEM—NIPISSING DISTRICT LOADS OF MUNICIPALITIES—1928-1929-1930

Municipality	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
Callander	113.9	107.2	110.7	....	3.5
Nipissing	3.0	3.0	3.0	....	....
North Bay	2,721.2	2,992.6	3,111.2	....	118.6
Powassan	70.8	96.6	95.1	1.5	....



NORTHERN ONTARIO SYSTEM

NIPISSING DISTRICT PEAK LOADS

HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

NORTHERN ONTARIO SYSTEM—NIPISSING DISTRICT RURAL POWER DISTRICT LOADS—1928-1929-1930

Rural power district	Peak load in horsepower			Change in load 1929-1930	
	Oct., 1928	Oct., 1929	Oct., 1930	Decrease	Increase
North Bay	40.2	42.2	69.7	....	27.5

Sudbury District

As stated in the last Annual Report, the control of the Wahnapitae Power Company was acquired by the Commission in 1929. From February, 1929, until April 30, 1930, the company continued as a joint stock company with the Commission's Operating department controlling the operation of the three generating plants and transmission lines. On April 30, 1930, the Commission completed the purchase of the company and the former Wahnapitae Power Company properties are now included in the Commission's Northern Ontario system and known as the Sudbury district.

The Sudbury district includes three generating stations, with 22,500-volt tie lines between plants, a line from the Coniston plant to Sudbury, also operated at 22,500-volts, and a substation at Sudbury. Power is supplied to Sudbury, to the International Nickel Company's plant at Coniston, to the Treadwell Yukon Company, the Falconbridge Nickel Company and to Burwash Industrial Farm. The three mining companies named above and the Burwash Industrial Farm, each own their own transmission lines.

The power houses have been named Coniston, McVittie and Stinson. The rated generating capacities of the three plants are as follows:—Coniston 4,550 kv-a., McVittie, 2,500 kv-a., Stinson 5,000 kv-a., making a total of 12,050 kv-a.

The peak load in this district shows an increase of twenty-two per cent and the average load an increase of twenty-three per cent over the previous year. Figures for load in the fiscal year 1929 were obtained partly from the records of the Wahnapitae Power Company. The major part of this increase was due to the addition of the Sudbury municipal load and the load of the Falconbridge Nickel Company.

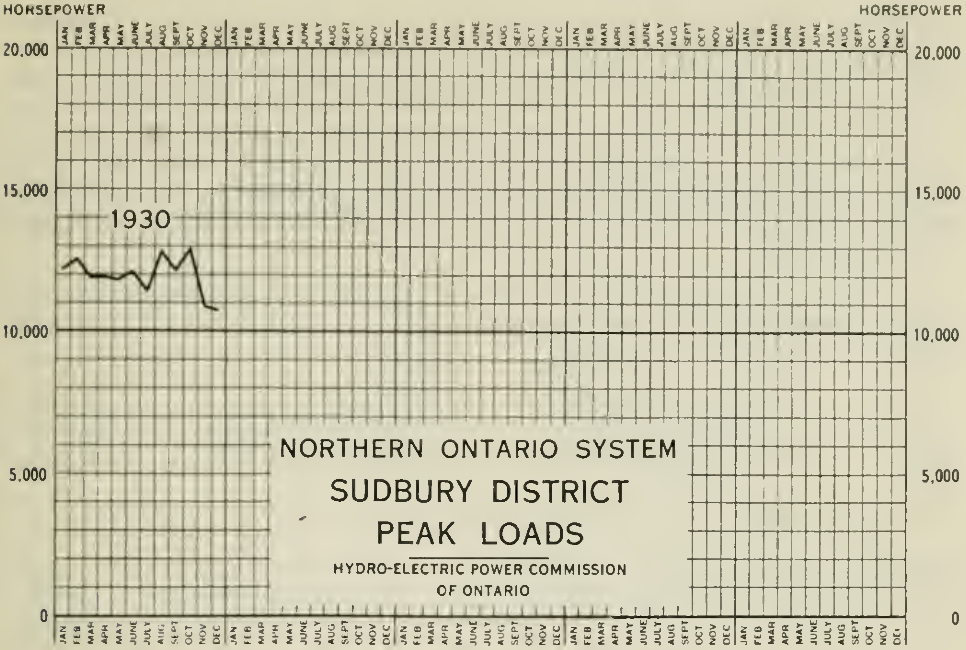
Due to a period of continuous heavy rains and a particularly heavy rainfall on June 27, the river flow became so great that McVittie power house was flooded to a depth of about fifteen inches on the power house floor. Water got into a portion of the generator and exciter windings, also into the machine cables. By June 30 the water was low enough to start work drying out the insulation affected, and the machines were placed back in service on July 8. As a result of this flood a certain portion of the system load was curtailed till repairs could be completed.

On July 8 the No. 1 generator at this plant was damaged by lightning, shortly after it had been returned to service. Twelve coils had to be replaced and repairs made to the armature iron which had been damaged.

To obviate future damage from flooding a bulkhead was placed in the floor opening left for No. 3 draft tube, and provision made for blocking the doors with stop logs.

New lightning arresters were installed on the 2,300-volt bus at the McVittie plant to try and prevent trouble previously experienced due to lightning coming in over the Burwash feeder and damaging the generators.

Trouble occurred in the upstream runner of No. 3 turbine at Coniston power house due to cracked and broken buckets. These defects were repaired by welding and the unit returned to service. As similar trouble was experienced with this runner a few years ago, it was felt that it would be advisable to have a spare runner, and a new runner was ordered.



Ventilators were installed on the roof of Stinson power house and the roof of Sudbury substation, to reduce the excessive temperatures in these stations during warm weather.

The machines at all three power houses were carefully inspected and necessary maintenance work carried out, including turning down commutators and collector rings and undercutting mica on commutators, aligning bearings, and repairing gates and gate operating mechanism.

The private telephone line was extended from the Sudbury substation to the Sudbury office so that the superintendent can keep in touch with the general operation of the district.

Considerable underbrushing was done along the lines, and a large number of poles treated with preservative at the ground line.

During the severe floods experienced in the upper Wahnapitae watershed at the end of June, the storage dam on Scotia lake failed and part of the dam was washed away. Arrangements were made to replace this dam and at the end of the fiscal year reconstruction of the dam was under way.

Patricia District

The generating and transformer station at Ear Falls on the English river was tested out and placed in service on Dec. 25, 1929, but since the installation of electrical equipment at the Howey gold mine at Red lake was not completed, no power was supplied until February, 1930, when some equipment at the mine was tested out. This load slowly increased and reached its maximum level during May, and since has remained fairly constant.

All equipment at this station has functioned in a very satisfactory manner, though some minor troubles have been experienced with the governor pump equipment. No major maintenance work has been necessary during the year.

The Commission has maintained the half of the 44,000-volt transmission line adjacent to the generating station for the Howey Gold Mines, who own this line. There have been two interruptions to service due to trouble on the transmission line during the year. Both of these were caused by trees blown across the line. On May 22, during a heavy blizzard, a very strong west wind uprooted a tree and blew it across the line. It is the intention to continue cutting the higher trees in the bush adjacent to the cleared right-of-way, but it is somewhat doubtful whether the completion of this work would have prevented the outages mentioned above.

One other interruption to service was due to failure of a current transformer in the generating station caused by water coming through around the windows. This condition has been remedied.

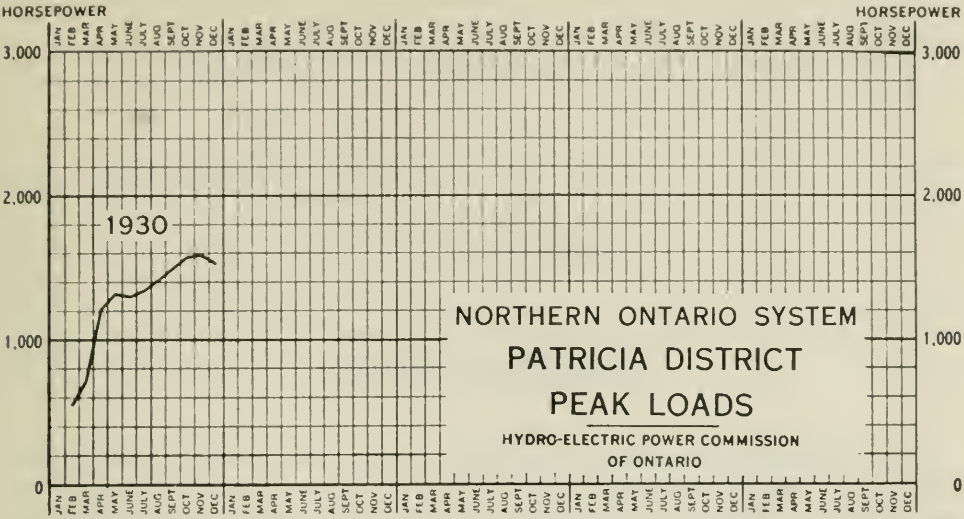
Heavy forest fires were reported near Red lake early this year, but they were brought under control before as much damage was done as in the previous year. No fire approached close enough to endanger the station or the transmission line.

The transportation of operating supplies, maintenance material and men presents problems somewhat different from those encountered at plants in more thickly settled parts of the province. Ear Falls power house is situated on the English river about three miles below Goldpines, which is located at the outlet from Lac Seul. During the summer supplies are transported by water from Hudson, the nearest railway station, a distance of about 125 miles. In the winter, when lake and river are frozen, transportation is by team, or by motor truck when snow permits, over the same route. In the fall when the lakes and rivers start to freeze over, there is a period of four to six weeks in October and November when navigation becomes impossible and transportation over the ice is not feasible. Another similar period occurs during the spring break-up of ice on the lake's surface. During these periods the plant is almost completely isolated. In addition to the above methods of transportation there is a regular aeroplane service between Sioux Lookout, on the C.N.R., and Goldpines, and a second air service between Hudson and Goldpines. Men, mail and small packages may be sent in over these air routes, a distance of about 75 miles as against 125 miles by the more circuitous water route. As the aeroplanes use pontoons for landing on the water during the summer, and skiis for landing on the frozen surface of the lake and river during the winter, they also are affected by the fall and spring break-up. During the break-up periods, therefore, the staff at the power house is cut off from all operating and maintenance supplies and even from communication by mail. Their sole connection with the outside world is by radio.

During the past year the plant was completely isolated from April 11 to May 9, but the autumn freeze-up was later than usual, traffic and mail communication remaining open up to October 31, the end of the fiscal year covered by this Report.

At the instance of the Lake-of-the-Woods Control Board the flow in the English river has been frequently adjusted during the year by means of the Lac Seul regulating dam at Ear Falls.

The precipitation records have only been kept since May, but it is believed that the precipitation in this district has been somewhat above normal this



year. Due to the conservation of water when not required by the Lake-of-the-Woods Control Board the level of Lac Seul has been materially raised during the year.

Radio Communication

During the year a short-wave experimental radio station was built and installed at Ear Falls generating station. The radio equipment is similar in capacity to those already in service at Cameron Falls on the Thunder Bay system, and at Toronto. The transmitter embodies the new type of circuit that has been used in the alteration of the set at Toronto. Rectified current has been used as a power supply in place of the usual motor generator set. This source of power has given very satisfactory service.

Contact was first established between this station and Toronto on May 26, 1930. Since that time communication has been carried on quite regularly with the exception of a short interval when the station was without an operator.

Ear Falls is the Commission's most outlying station and is completely isolated for periods of four to eight weeks in spring and fall. The radio station is therefore a very necessary and important feature, as it is the only means of maintaining communication with the outside world during the periods of isolation.

Contact has frequently been established between this station and the one at Cameron Falls on the Thunder Bay system. By this means messages may be relayed between Ear Falls and Toronto when conditions are not favorable for direct communication.

SECTION III

MUNICIPAL WORK

The Commission acts in an advisory capacity in connection with the operation of the "Hydro" utilities of the various municipalities with which it has contracts. In this connection the Commission arranges for the purchase, construction or extension of distribution systems and assists the municipal officials in making their financial arrangements to pay for the cost of these systems. All rate adjustments, as provided under The Power Commission Act, are recommended by the Commission, and a study of the operating conditions of all utilities is made annually and adjustments recommended accordingly. The Commission generally supervises the management and operation of all systems, more especially in the smaller municipalities which, individually, are not of sufficient size to employ a manager with the technical knowledge necessary to administer properly all phases of the local system's operation.

In the case of the rural power districts, the Commission itself—on behalf of the corporations of the individual townships—operates the rural power systems, and distributes electrical energy to the customers of the respective corporations in any such rural power district.

NIAGARA SYSTEM

The increase in the power demands of the Niagara system while not as great as in some preceding years was satisfactory. The tenth unit at the Queenston generating station was completed and placed in operation on July 4, 1930. The eastern section, approximately ninety-one miles in length, of the second 220,000-volt steel-tower line conveying Gatineau River power to Toronto, was completed.

The Commission and the Chats Falls Power Company have under construction at Chats Falls on the Ottawa river a generating plant which will deliver approximately 224,000 horsepower to the Niagara system. A third 220,000-volt steel-tower line has been placed under construction to connect Leaside with this generating plant.

A new 110,000-volt line has been constructed from the vicinity of Niagara falls to Port Colborne to supply the industrial loads in this vicinity.

During the year the Commission purchased the properties known as the Dominion Power and Transmission Company. This Company with subsidiaries was purchased for the sum of $21,000,000. The capacity of the generating plants plus power purchased under contract amounts to 83,900 horsepower and power is delivered to a large number of municipalities and industrial consumers in the territory extending from Port Colborne and St. Catharines to Hamilton, Brantford and Oakville.

By operating the Queenston-Chippawa plant—the most efficient of the three plants owned by the Commission—at full capacity as much of the time as possible, the Commission is able to obtain from the available water supply a maximum amount of power. After taking care of the full requirements of the Niagara system operating at its greatest capacity, the Commission was able during the year to sell substantial quantities of *interruptible* off-peak power to companies in the United States under arrangements which permit its withdrawal when required by Canadian industries. Such sales are of course of benefit to the system.

General engineering assistance was given during the year to practically all of the municipalities in the Niagara system, by a general supervision of management and operation, and also in connection with the construction and extension of distribution systems and stations. Certain municipalities received special engineering advice and assistance regarding a number of matters, which are more fully referred to as follows·

Acton—A decided increase in the load of power users necessitated the installation of 300-kv-a. additional capacity in Acton distributing station. Additional 4,000-volt feeders to serve these loads were also provided.

Bolton—Increased use of appliances by domestic users necessitated the rebuilding of a portion of the system and the work was undertaken by the staff of the Woodbridge rural power district, directed by the Commission's engineers.

Brantford—A new substation known as Brantford Sub No. 2 was erected during the year. This consists of one 3,000-kv-a. outdoor-type transformer with the switching and metering equipment housed in a brick building. Six 4,000-volt feeders have been installed. The station will be unattended and may be tied in with Sub No. 1. Provision has been made for an additional 3,000-kv-a. transformer to be mounted outside.

Brigden—At the request of the local Trustee Board, the operation and maintenance of the distribution system were taken over by the Commission's staff of the Oil Springs rural power district.

Chatham—Extensions and improvements were made to the transformer station. Additional ornamental street lighting was installed on Dufferin and Park streets.

A recommendation was made to the Utility in connection with the issuing of debentures to take care of the bank overdraft and the financing of extensions, instead of making plant extensions from operating surplus.

Embro—At the request of the local Commission the operation and maintenance of the electrical system was taken over by the Ingersoll rural power district staff during the year.

Essex—The distribution system was changed so as to remove all primary 4,000-volt conductors from the main street and make way for steel poles put in jointly by the municipality and the Windsor, Essex and Lake Shore Radial

Association. A new ornamental street lighting system, consisting of sixty-one 300-watt multiple lights in pendant type of acorn fixtures, has been installed on these joint poles.

Glencoe—The distribution voltage to Glencoe was changed to 8,000-volts and the local distribution system was remodelled to accommodate the change.

Goderich—Tests were carried out by engineers of the Commission on a new domestic-pumping unit consisting of a 900-gallon, 310-foot head, centrifugal pump direct driven by a 110-horsepower, 2,200-volt motor.

Harrow—On Nov. 1, 1929, the local operation of the town system was taken over by the Commission's rural staff and a new office was opened on the main street. During the year the Commission's station was more than doubled in capacity to take care of the increasing loads in the town and in the rural district, especially along the lake Erie front where many new summer cottages are being built each year.

Ingersoll—The distribution system was rebuilt to take care of the increased lighting loading. The primary feeders going north on Thames street were removed through the business street section and placed to the east in the rear of the buildings.

Kingsville—Owing to the change in location for the new station in this municipality the primary 4,000-volt circuits were rearranged. Advantage will be taken of this to increase the size of these conductors and divide the town on east and west circuits.

Lambeth—Plans have been prepared to take care of changes to the distribution system made necessary by the serving of this municipality from the Glendale station instead of from Delaware station. Actual work will be undertaken during the first month of the coming year.

Lynden—In accordance with a resolution received from the local commission, plans were prepared for remodelling the distribution system. The work has been completed by the Commission's staff of the Dundas rural power district.

Merlin—During the early part of this year the operation of the local system was taken over by the Commission's Blenheim rural power district staff. A new office was opened for the village and surrounding rural district.

Newbury—Distribution voltage to Newbury was changed to 8,000 volts and the local distribution system was remodelled to accommodate the change.

New Hamburg—The rearrangement of a portion of the distribution system on Waterloo street and Huron road was undertaken, larger secondary conductor being installed.

Oil Springs—During the year the operation of the local system was taken over by the Commission's Oil Springs rural power district staff. A new office was opened in Oil Springs to take care of the operation of the municipalities of Brigden and Oil Springs as well as the Brigden, Oil Springs and Petrolia rural power districts.

Otterville—During the year thirty additional street lights were erected in the village, twelve of which are 200-watt ornamental brackets carried on adjacent poles in the business section of the main street.

Port Colborne—A substantial amount of work has been done on the local system in addition to installing cables under the new Welland Canal. The Commission's engineers prepared the plans and estimates.

Port Dover—Upon receipt of a resolution from the Port Dover Commission, plans and estimates were prepared for increasing the capacity of the local system. The work is being carried out by the Commission's Simcoe rural power district staff.

Richmond Hill—Increases in loads of domestic customers necessitated the rebuilding of a substantial portion of the local distribution system. The work was done by the Commission's staff of the Bond Lake rural power district.

St. Thomas—The office was moved from the old situation on Catharine street to a fine building purchased from Huron and Erie Mortgage and Loan Company. All Hydro bills which were formerly paid at the City Hall will now be paid at the new office.

Sarnia—Improvement was made in the street lighting in the main part of the town, by the installation of more efficient glassware. Plans were made to improve the lighting throughout the city, and commencement was made by the installation of larger lamps on main secondary thoroughfares. This work will be completed during the coming year.

Strathroy—A very fine ornamental street lighting system was put in on Front and Frank streets consisting of twin units. It was possible to eliminate a number of the overhead wires, which greatly improves the general appearance of the town.

Sutton—As the distribution system in this municipality had become inadequate for the loads, a great amount of rebuilding was done, with the assistance of the Commission's engineers and the staff of the Keswick rural power district.

Thedford—Plans and estimates have been prepared to remodel and rebuild the local distribution system to accommodate a change of distribution voltage from 4,000 to 8,000 volts.

Tilbury—The 4,000-volt primaries were removed from the main street and new primary feeder line was constructed. New power secondaries were strung to supply practically all the power load from one bank of 550-volt transformers in the centre of the town. The transformers for the town fire pump were rearranged so as not to be on the lines except when required for fire purposes.

Tillsonburg—In order to provide for increased loads, the main portion of the primary and secondary distribution system is being rebuilt locally with heavier conductor. Provision is also being made for a primary ring bus, in order to give better and more constant service.

Wallaceburg—Work was commenced on the installation of an ornamental street lighting system in the business section of the town.

Wardsville—Distribution voltage to Wardsville was changed to 8,000 volts and the local distribution system remodelled to accommodate the change.

West Lorne—The operation and the maintenance of the electrical distribution system were taken care of by the Commission through the Dutton rural power district staff in accordance with a request of the local Committee.

GEORGIAN BAY SYSTEM

The growth of load throughout this system during the year was such as to maintain an average increase equal to that established over past years, and as the various developments supplying power to the system became loaded to capacity the Commission undertook the construction of a 110,000-volt transmission line between Kitchener and Hanover, and a 5,000-kv-a. frequency changer set at Hanover, by means of which the Niagara and the Georgian Bay systems were tied together, and a large block of power made available for the Georgian Bay system from the Niagara system. This connection also makes possible the return of power from the Georgian Bay to the Niagara system during high water periods. This line and station were completed and placed in operation during the year. A tie line between the Bala system and the Big Chute development was also completed and placed in operation during the year, and the distributing lines of the Bala system were completely overhauled and placed in satisfactory operating condition. Complete new substations were installed as follows: Bala, 450-kv-a.; Utterson, 300-kv-a.; Southampton, 300-kv-a.; Painswick, 300-kv-a.; Tara, 75-kv-a., and Walkerton, 750-kv-a. The following existing substations were enlarged: Innisfil from 100-kv-a. to 450-kv-a.; Wroxeter Rural Power District from 75-kv-a. to 225-kv-a.; Kirkfield from 225-kv-a. to 450-kv-a.

Negotiations were conducted and completed during the year with the Public Utilities Consolidated Corporation of Minneapolis, Minnesota, covering the purchase of The Saugeen Electric Light and Power Company, and The Walkerton Electric Light and Power Company in Bruce County, and the Commission has now assumed complete control of these properties for the municipalities.

General engineering assistance and advice concerning the management and operation of the various local distribution systems, also assistance in connection with the application of rates and the submission of information to power and lighting customers was rendered to all of the municipalities throughout the district.

Engineering advice of a special nature in connection with matters referred to was given to the following municipalities:

Barrie—Arrangements were made for changing the local distribution system from two-phase to three-phase, and plans and estimates were drawn up and submitted to the local Commission accordingly.

Orillia—At the request of the town of Orillia, valuations were made of the rural lines in Rama, Mara and Orillia townships—owned and operated by the town of Orillia—in connection with the purchase of these lines by the Commission, and the operation of them under standard rural conditions in accordance with the Act. An agreement was drawn up and submitted, and negotiations carried on covering the purchase of these lines by the Commission. It is expected that the deal will be completed early next year.

Port Elgin—A valuation of the distribution system was made in this municipality and estimates prepared covering the cost of reconstructing it in order that the local system might be in a position to give proper service.

Rosseau—Enabling and money by-laws were submitted to the ratepayers and carried in this municipality on January 6, 1930.

Southampton—An estimate was prepared covering the reconstruction of the local distribution system in order to put it in first-class condition. A substation was also constructed in this municipality and service given from the Georgian Bay system on the 2nd of July.

Wiarton—Estimates were prepared covering the complete reconstruction of the distribution system in this municipality.

Windermere—A distribution system was constructed and placed in operation on June 30, 1930 and Hydro service given to the consumers for the first time.

EASTERN ONTARIO SYSTEM

This system which was formed in 1929 by combining three former systems, viz., Central Ontario system, St. Lawrence system and Rideau system, now serves the eastern portion of the Province as far west as Ontario county.

The properties on the Madawaska and Mississippi rivers, acquired from Mr. M. J. O'Brien in June 1929 have also been combined with this system.

A rural network of lines known as the Beach Rural Electric system in Dundas county supplied from a small generating plant at Iroquois owned by the Beach Estate, was acquired on July 1, 1930 by the Commission and a contract to purchase 500 horsepower was negotiated with the owners of this plant. These properties and power supply have also been made a part of the Eastern system.

The system receives its power supply in part, from generating plants on the Trent Canal system and the Rideau, Mississippi and Madawaska rivers: purchased power at Cornwall from the Cedar Rapids Company and at Ottawa from the Gatineau Power Company as well as small blocks at other points supplement this supply. The immediate future requirements of the system are amply provided for by the contract with the Gatineau Power Company and the Commission holds numerous important water power sites on the above rivers for future development.

Bancroft—Assistance and advice was given to this municipality in its negotiations with a private company for light and power.

Bath—A report is in preparation with regard to the supply of power to the village of Bath.

Belleville—On January 1, 1930 the Belleville Hydro-Electric System took over the operation of the Belleville distribution system, purchased from the Commission in 1929. Improvements to the street lighting system on No. 2 highway in Belleville are in course of construction.

Brighton—The corporation of Brighton purchased the local distribution system in Brighton and took over the operation of this system on May 1, 1930. The plant has been operated by the Brighton Water Commission, pending the election of a local Hydro-Electric Commission at the 1931 municipal elections.

Cardinal—This village which signed a contract with the Commission received its first supply of power on July 4, 1930.

Deseronto—Negotiations with regard to the purchase of the local distribution system by the municipality are now under way.

Hastings—Plans and estimates with regard to the supply of power for Hastings were submitted to the Corporation. By-laws arranging for power supply were passed by the electors.

Kingston—Assistance was given to the Public Utilities Commission, in connection with arranging for a supply of power for a new grain elevator which has been constructed at Kingston this year.

Madoc—On the expiration of a contract for the supply of power at a fixed rate, the corporation of Madoc, on January 1, 1930 entered into a contract with the Commission for a supply of power at cost. A revision of the municipality's system of rate charges was made to bring these in line with the Commission's standard form of rates. Plans are being made to improve the distribution system.

Napanee—The corporation of Napanee purchased the local distribution system from the Commission and took over its operation on April 1, 1930. The Napanee Public Utilities Commission is operating the system.

Oshawa—The Oshawa Public Utilities Commission on January 1, 1930 took over the operation of the Oshawa electrical distribution system and the Oshawa gas plant purchased from the Commission in 1929.

Port Hope—The corporation of Port Hope purchased the local distribution system from the Commission and took over the operation of the plant on May 1, 1930.

Renfrew—Due to a shortage of water on the Bonnechere river, the town of Renfrew applied to the Commission for assistance. The Commission was able to assist by accepting the output of a steam driven generator at Arnprior and delivering an equivalent amount of power at Renfrew.

Stirling—On the expiration of a contract for the supply of power at a fixed rate, the Corporation on January 1, 1930 entered into a new contract with the Commission for a supply of power at cost. Engineering assistance was give the municipality in connection with certain changes and improvements to the municipality's distribution station. Arrangements are being made with the municipality to take care of the operation of the adjacent rural power district.

Trenton—The street lighting system has been converted from a series to a multiple system.

Tweed—The Corporation is negotiating with the Commission for the purchase of the local distribution system in Tweed.

Ottawa District

In November 1929 the new high-tension station taking power at 110,000-volts, 60-cycles, was put into operation, the power delivered being part of that obtained under the contract with the Gatineau Power Company. The city of Ottawa takes this power at 11,000-volts through its new distribution station.

This additional power supply was made necessary by the rapid growth of load to an amount beyond the 20,000 horsepower available under the contract with the Ottawa and Hull Power Company, now incorporated in the Gatineau Power Company system.

THUNDER BAY SYSTEM

The power consumption of this system was considerably affected during the year by the national and world-wide industrial depression which prevailed throughout the entire year. The grain trade and the pulp and paper industry utilize the major portion of power used in this district, and these two commodities were among those which have suffered most from trade depression conditions. In spite of these difficulties, the results of the year's operation compare favorably with preceeding years. The Alexander development of 54,000 horsepower capacity was completed in part, the first unit being placed in operation on October 21, 1930.

Engineering assistance and advice covering the management and operation of the various distribution systems was given to the cities of Fort William and Port Arthur, also to the village of Nipigon, which comprise this system.

NORTHERN ONTARIO SYSTEM

Nipissing District

Investigations were made and estimates prepared covering a future supply of power for this system, which comprises the city of North Bay and the villages of Powassan, Nipissing and Callander.

Sudbury District

After the preparation of estimates and careful investigation, arrangements were completed for securing a supply of power from The Ontario Power Service Corporation, a subsidiary of The Abitibi Power and Paper Company, from a development at Abitibi canyon on the Abitibi river, approximately 50 miles north of Cochrane. A contract for 100,000 horsepower was executed. The initial power will be delivered during the latter part of 1931. It is expected that this will supply the district with all of its requirements for some time to come, and will supplement power now being obtained from the former developments of The Wahnapitae Power Company, which now form a part of the Commission's Northern Ontario system. A contract was executed with The International Nickel Company for a large block of power for its works at Copper Cliff.

Patricia District

This district is supplied by the new development at Ear Falls at the foot of Lac Seul, the first unit of 5,000 horsepower having been completed and placed in operation during the year. The only customer at present is the Howey Gold Mines Limited, but provision has been made for supplying any other industry which may require power to operate.

RURAL ELECTRICAL SERVICE IN ONTARIO
A farm home in Ontario using "Hydro" service

RURAL ELECTRICAL SERVICE

The process of supplying electrical service to the rural areas of Ontario has now been going forward for several years and very encouraging progress has been made in the sections of the Province served by the transmission lines and stations of the Commission. Rural electrification to attain its greatest success must have the wholehearted support of all rural dwellers. It is essentially a community interest. The transmission lines which serve the individual farmers can also carry light and power to churches, schools and stores, and to factories utilizing agricultural products as their raw materials. Efficient electrical service at low cost, such as is supplied by the Commission, is a great step forward in the agricultural development of the Province, and its use helps to make farming more profitable. Moreover, no other agency can contribute so much to the maintenance of a standard of living which makes life in rural districts more attractive.

The rural population has therefore welcomed with enthusiasm the possibility of obtaining the combination of lighting service with that of a most flexible form of power supply. The great networks of transmission lines which serve urban municipalities have constituted an opportunity and afforded a base from which rural primary lines may economically be extended over wide areas of the more closely settled parts of rural Ontario. The growth in mileage of rural lines during recent years has been phenomenal, and the farmers of Ontario are taking advantage of the service as fast as lines can be built to supply them.

The policy and practice of the Commission has been, and is, to make a distribution of electrical energy as widespread as possible, and to extend to every community that can economically be reached by transmission lines the benefit of electrical service. In harmony with this policy, the supplying of electrical service to rural districts has been undertaken according to a comprehensive and carefully thought-out programme. For the purpose of electrical service in rural Ontario, *rural power districts* are formed in the more closely settled portions of the Province traversed by transmission lines. A typical *rural power district* covers about 100 square miles. Its boundaries are not arbitrary geographical limits—such as define, for example, the areas of townships—but depend rather upon the economic distances which may be served

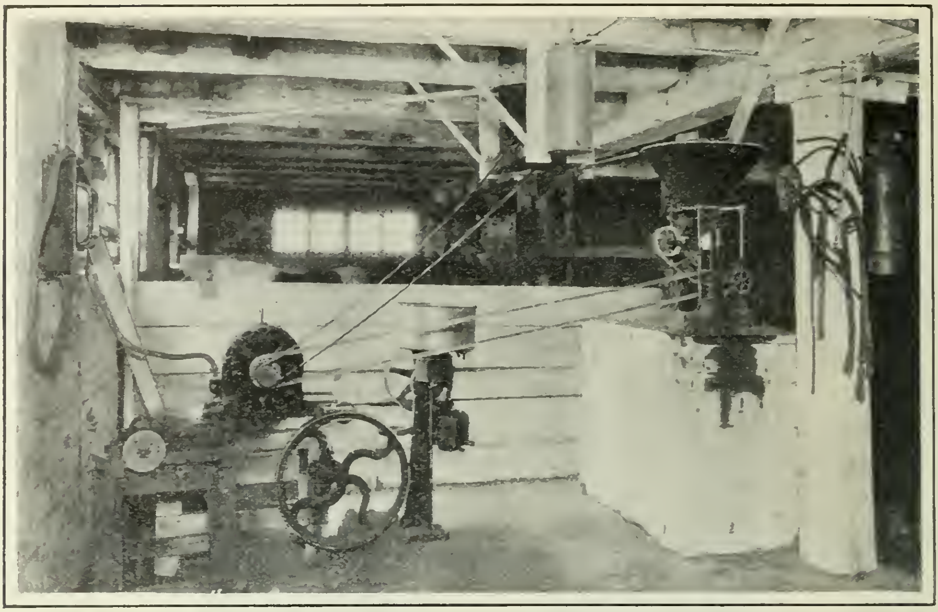
RURAL ELECTRICAL SERVICE IN ONTARIO
A small automatic water pumping system as used in rural homes in Ontario, served by the Hydro-Electric Power Commission

from a distribution centre of city, town or village. It should be appreciated that without such transmission networks as have been constructed to serve the cities and towns of the Province, any extensive rural electrification would be economically impracticable.

The experience gained by the Commission and the improvements in technique, enable electrical service to be given to rural districts when there can be secured three signed farm contracts, or their equivalent, per mile of line to be constructed.

Assistance is given by the Province to farmers and rural residents in three ways, namely:

First—A grant-in-aid toward the initial capital cost of supplying electrical service amounting to fifty per cent of the cost of line and secondary equipment, which is the maximum amount provided for by the Rural Hydro-Electric Distribution Act.



RURAL ELECTRICAL SERVICE IN ONTARIO

The three-horsepower motor illustrated is used in the barn to drive a chopping mill, a milking machine, a cream separator and a jack-shaft and emery stone

Second—Authority has been granted by the Province to the Commission to fix a maximum service charge for any class of service rendered by the Commission in a rural power district. Where as is usually the case in newly established rural power districts such maximum service charge is not sufficient to meet the necessary cost of service, as specified by the Commission, the deficit is chargeable to and payable out of the Consolidated Revenue Fund of the Province. Payments made out of the Consolidated Revenue Fund for this purpose, on account of any rural power district, is charged to that rural power district in a special account known as the "Rural Power Service Suspense Account" in the books of the Treasurer of Ontario, and any surplus thereafter arising from any maximum service charge in that rural power district is to be paid to the Treasurer of Ontario and placed to the credit of the rural power district in such suspense account until the deficit is extinguished. Where a temporary deficit arises in any rural power district owing to the application of the maximum service charge, such maximum service charge must remain in force and be charged in that rural power district until the deficit is extinguished.

A tabulation set out on an accompanying page shows the present maximum service charge placed in effect on January 1, 1930.

Third—An Act to provide for granting aid towards the installation of electrical works in rural power districts was passed during the year. The purpose of this Act is to provide advances towards the installation of electrical services in rural power districts, subject to regulations. Aid may be granted subject to such regulations and repayments for the wiring from the transmission or distribution lines of the Commission into and throughout dwellings, farms, out-houses, and any other works which may from time to time be specified by

RURAL ELECTRICAL SERVICE IN ONTARIO

The tented city at the provincial ploughing match at Stratford, Ontario, at which "Hydro" made a very comprehensive demonstration of appliances and equipment for use on the farm

the regulations. In addition to the wiring, loans may be obtained on transformers, motors, or other appliances, as may be necessary or expedient for any industrial, agricultural or domestic purpose which may be specified in the regulations.

The assistance given by the Province in these several ways is in pursuance of a long-established governmental policy of promoting the basic industry of agriculture. This policy had previously found expression in the establishment of agricultural schools, colleges and experimental farms, in assistance for farm drainage, road building and in other ways. The grants-in-aid and guarantees thus given make it possible to extend hydro-electrical power service to those engaged in and connected with agricultural pursuits in less densely populated districts where otherwise such service would not be financially feasible.

The extent and effect of the Province's financial assistance with respect to the distribution of power in rural districts should be clearly understood. The Government grant-in-aid relates to the initial capital investment. Having made its grant-in-aid, the Government further participates in the operation of each district in that it guarantees a maximum service charge, otherwise its participation in the operation of the property ceases. Each rural power district not only pays the cost of operation, maintenance and administration of its lines, but also sets up reserves for renewals, obsolescence and contingencies on the whole of the equipment and lines, as well as for sinking fund on the investment made by the Commission on behalf of the townships served.

The aggregate load distributed to the rural dwellers is, and possibly must always be, but a relatively small proportion of the total energy distributed by the Commission, and the provincial grant towards the cost of rural service is of no advantage to the power system as a whole, because the demand for power at present, apart altogether from the small amount distributed to the rural districts, is such as readily to absorb the supplies progressively being made available. On the other hand, the beneficial influence of rural electrical service on agriculture is reflected in the prosperity and welfare of the Province as a whole, and is already a factor of importance and worth.

The accompanying diagrams illustrate the unprecedented expansion of rural primary-line extensions during the last ten years, and the increase in the use of electricity by the farming communities of Ontario as shown by the aggregate peak loads. It is believed that further substantial progress will be made in the next few years. An outstanding reason for this growth is the extent to which the Commission has gained the confidence of the rural communities through efficiency in the construction of lines, through progressive reductions in rates and by a continuity of service which has contributed very materially to progress by inspiring confidence in the use of electrical power-driven machinery.

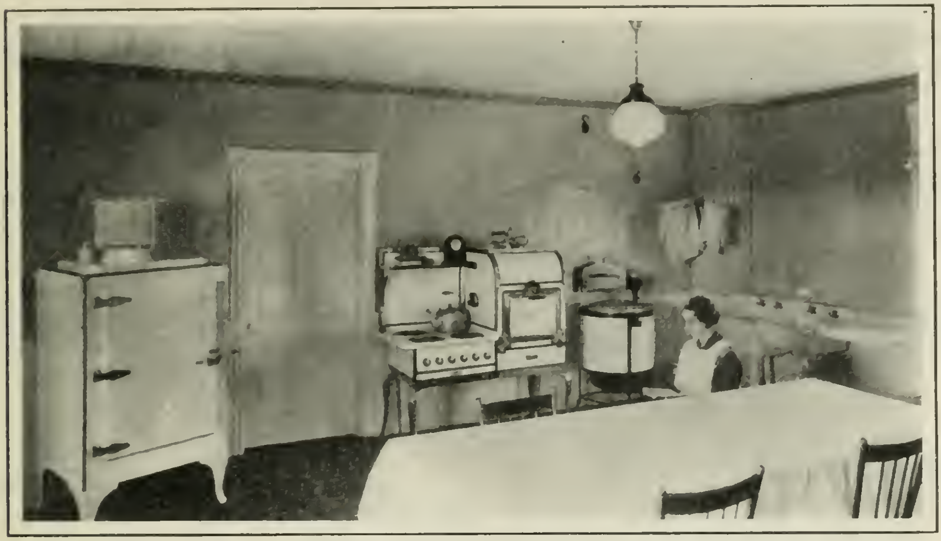
The Year's Activities

During the past year the amount of constructional work carried out in the rural power districts exceeded by a substantial margin that of any previous year. Some 1,860 miles of primary transmission lines were constructed or under construction and electrical service was given to 9,375 additlonal consumers. The capital expenditure approved for rural construction work during the past year was $2,041,919, and the aggregate peak load in October, 1930, reached 26,782 horsepower. Details of these matters and of the present status of rural distribution are presented in the accompanying tables. For the coming year, arrangements have been made to construct about 1,800 miles of additional rural lines.

The engineers of the Commission attended during the past year a number of public meetings throughout the Province, held for the specific purpose of explaining to prospective consumers the rates at which electrical power could be supplied, the uses which can be made of power on the farm and the procedure necessary to obtain service. In all, seventy-five meetings were held. Where possible, moving pictures were shown, illustrating the uses of electricity on the farm. The provincial statutes relating to rural distribution were explained, pamphlets were distributed, and assistance was given to local committees appointed to canvass their respective districts.

The Commission also co-operated with the Provincial Department of Agriculture by giving similar talks to students taking short-course lectures at the Agricultural College at Guelph, and at other centres. Representatives of the Commission also attended provincial ploughing matches and arranged to give information to a large number of interested farmers. The manufacturers of electric motors and other equipment used in connection with power on the farm co-operated with the Commission in giving demonstrations at various places, showing actually how power can advantageously be employed by the farmer.

During the past year not only has the power taken by the rural power districts increased because of increased mileage of transmission lines and the demand of the consumer connected to these new lines, but the demand for power has also increased due to the greater use of electricity on the farms already served and due also to the connection of new consumers to existing lines. Furthermore, many townships have installed—in districts where the conditions warranted—street lighting systems on the public highways. To supply these



RURAL ELECTRICAL SERVICE IN ONTARIO
An electrically-equipped kitchen in a farmer's home in Markham rural power district. The electric range, washing machine, refrigerator, iron and toaster, with a modern sink and laundry tubs supplied by a water system installed in the basement, assist materially in relieving the arduous duties of the farmer's wife

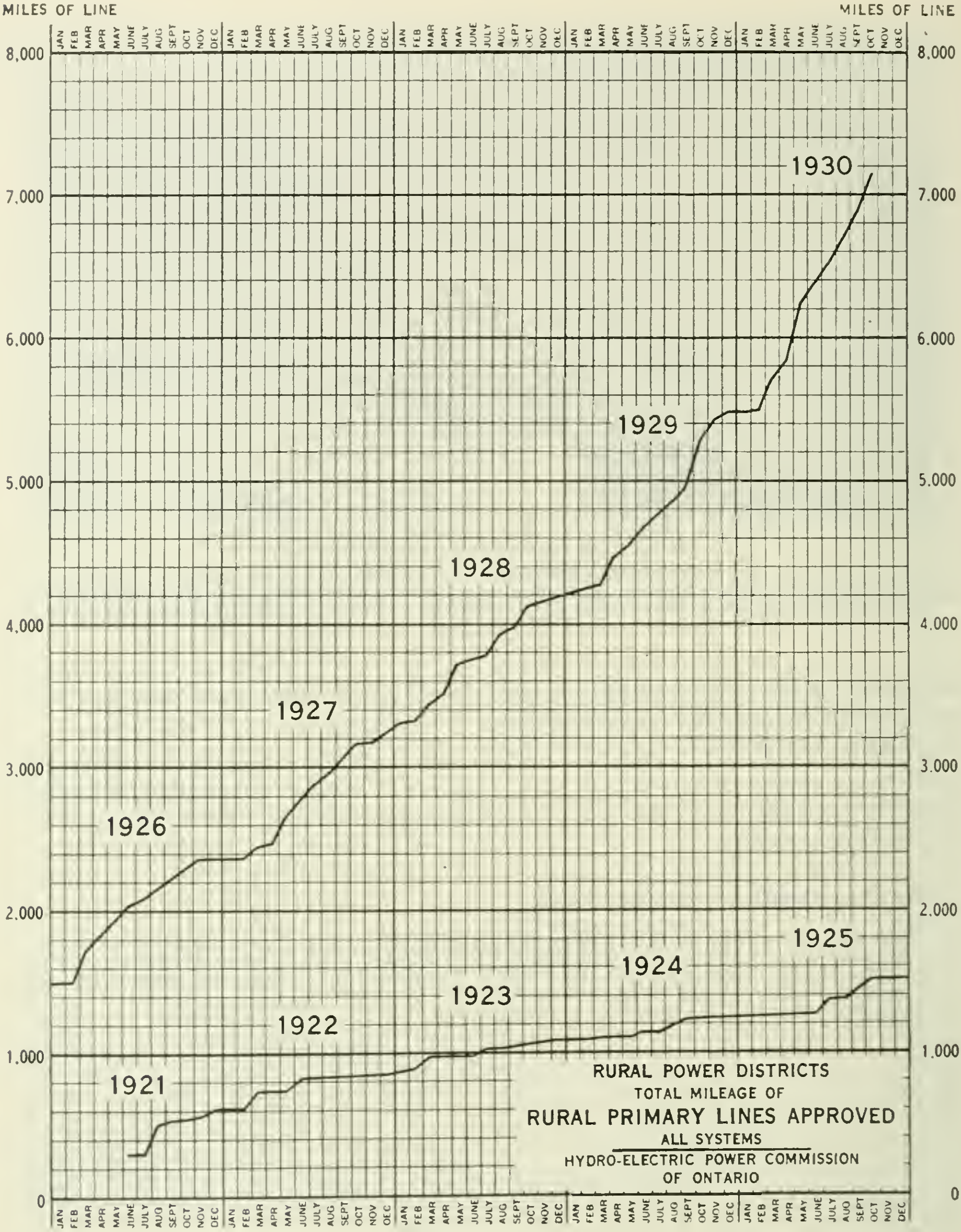
increased loads, new substations have been constructed and the capacities and number of lines have been increased.

The tabulation on page 72 shows the extensions approved during the year, the number of consumers, the amounts of power supplied, the capital expenditures and the amounts of provincial grant-in-aid of rural lines approved by the Government.

Rates for Rural Electrical Service

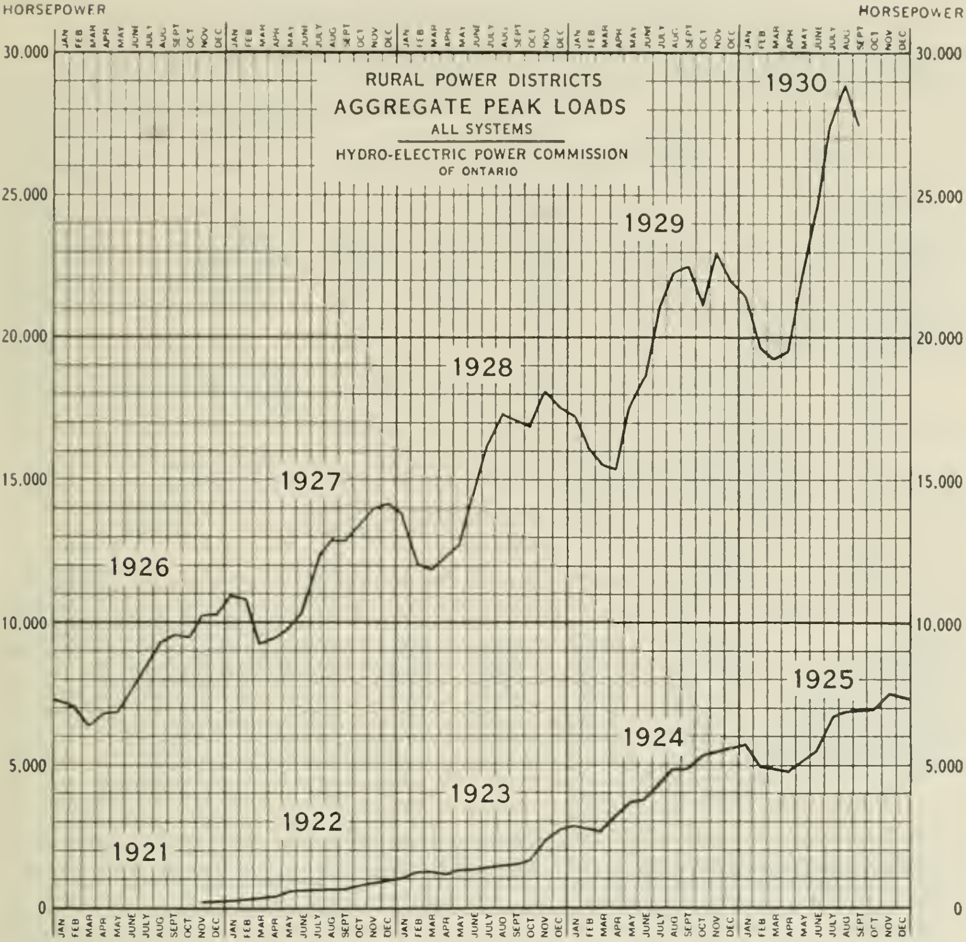
Rates to rural consumers are based upon service "at cost,"—proper account, of course, being taken of the Provincial grant-in-aid for rural work and the operation of the provision for a maximum service charge—and as in urban centres the rates are made up of two parts, a service charge and a consumption charge. In any given rural power district the service charge to a consumer depends primarily upon the individual connected load or demand which determines his class rating (See "Classification of Services") but this is modified in the earlier years of operation of a rural power district by the provision respecting maximum service charge; the consumption charge is in the form of a first and second kilowatt-hour charge and is largely determined by the cost of power at the source of supply to the rural power district.

An important factor in connection with rural power supply is the stability of the rates charged. Since service is given at cost and since it is the policy to give service wherever economically practicable, it is necessary, in the interests of the rural consumers themselves, to ensure by contract a certain minimum return from each mile of line constructed. Otherwise, if one or two prospective consumers failed to take service, it would place an unfair burden upon those who did. Experience has led the Commission to adopt the safe policy of constructing rural lines only when sufficient contracts have been signed to guarantee



payment of the fixed charges on their cost; the minimum signed contracts required being three ordinary farm contracts or their equivalent per mile of line constructed.

For the purpose of determining the service charge, each mile of line is assumed to represent a minimum of 15 units and to each class of service is assigned a value in such units. The accompanying Table gives this information and shows the annual and monthly service charges applicable to each class of



service. It may be stated that more than 90 per cent of the contracts entered into for farm service are either of Class 2B or Class III. These, therefore, are the representative classes for individual farm service.

Rather more than half the consumers in rural power districts are grouped in hamlets or small villages closely identified with rural activities, and these consumers are usually in Class 1B or Class 1C. It should further be understood that rural power districts do not include suburban districts or larger villages. These have their own electrical utilities.

All new rural power districts begin at standard rural rates and these constitute the maximum rates submitted to the proposed consumers. As the average number of consumers per mile of line increases, the service charges may be, and in practice have been, reduced; and with increased consumption the rates per kilowatt-hour are also lowered. Thus, in older-established rural power districts the total cost of service is much below the initial standard rates.

At the end of this section is given a tabulation of the rural power districts established in connection with the several systems of the Commission, which shows the miles of line, the number of consumers and the rate schedules for each district.

SUMMARY OF RURAL LINE EXTENSIONS

As Approved by the Commission from June 1, 1921, to October 31, 1930

System	Miles of primary line	Number of consumers			Capital approved for extension	
		Hamlet	Farm	Total	Total	Provincial grant-in-aid
					$ c.	$ c.
Niagara	5,437.55	18,196	17,305	35,501	12,009,573.94	6,004,786.97
Georgian Bay	520.57	2,399	1,100	3,499	1,087,005.36	519,336.20
Eastern Ontario	1,070.08	4,209	2,573	6,782	2,366,591.78	1,183,295.89
Ottawa district	121.77	372	371	743	249,096.53	124,548.26
Northern Ontario— Nipissing district	5.00	179	11	190	19,568.00	9,784.00
Total	7,154.97	25,355	21,360	46,715	15,731,835.61	7,841,751.32

RURAL LINE EXTENSIONS DURING THE YEAR 1930

System	Miles of primary line	Number of consumers			Power supplied in October, 1930	Capital approved for extensions	
		Hamlet	Farm	Total		Total	Provincial grant-in-aid
						$ c.	$ c.
Niagara	1,096.97	2,031	3,264	5,295	21,758	2,395,325.00	1,197,662.50
Georgian Bay	245.27	924	504	1,428	1,199	500,321.00	250,160.50
Eastern Ontario	513.54	1,116	1,360	2,476	3,305	1,124,500.83	562,250.42
Ottawa district	37.95	60	87	147	450	61,393.00	30,696.50
Northern Ontario— Nipissing district	....	27	2	29	70	2,300.00	1,150.00
Total	1,893.73	4,158	5,217	9,375	26,782	4,083,839.83	2,041,919.92

SERVICE CHARGES IN RURAL POWER DISTRICTS—AS AT JANUARY 1, 1930

With Provincial Grant-in-Aid—25-cycle and 60-cycle Service

Class of rural service	Units per consumer*	Approx. number of customers per mile of line	Demand allowed consumer in k-w.	Kilowatt-hours per month at first rate	Gross annual service charge	Gross monthly service charge	Net annual service charge	Net monthly service charge
					$ c.	$ c.	$ c.	$ c.
1B	2.25	6.8	0.75	30	18.00	1.50	16.20	1.35
1C	3.75	4.0	2.0	30	27.96	2.33	25.20	2.10
2A	1.90	8.0	1.0	30	20.64	1.72	18.60	1.55
2B	3.50	4.3	2.0	30	27.96	2.33	25.20	2.10
3	**5.00**	**3.0**	**3.0**	**42**	**33.36**	**2.78**	**30.00**	**2.50**
4	5.35	2.8	5.0	70	36.00	3.00	32.40	2.70
5	7.50	2.0	5.0	70	50.04	4.17	45.00	3.75
6A	12.50	1.2	9.0	126	62.04	5.17	55.80	4.65
6B	12.50	1.2	9.0	126	70.68	5.89	63.60	5.30
7A	20.00	0.74	15.0	210	92.64	7.72	83.40	6.95
7B	20.00	0.7	15.0	210	111.36	9.28	100.20	8.35

* Before a rural primary line is constructed contracts equivalent to 15 primary units per mile must be signed. (For explanation of units see accompanying text.) Thus three Class 3 consumers at 5 units each equals 15 units. Service charges are adjusted so that each class of service bears its equitable share of the cost.

CLASSIFICATION OF SERVICES FOR RURAL POWER DISTRICTS

When contracts between the consumer and the township have been executed, users of power in townships are supplied with electric service under general classes with limitations as follows:

Class	Service	Class demand kilowatts	Phase	Volts	Fuse rating amperes (maximum)
1B	Hamlet Lighting..................	0.75	1	110	15
1C	" "	2	1	220/110	35
2A	House Lighting....................	1	1	110	20
2B	Small Farm Service................	2	1	220/110	35
3	**Light Farm Service**..............	**3**	**1**	**220/110**	**35**
4	Medium Farm Service.............	5	1	220/110	50
5	" " "	5	3	220/110	35
6A	Heavy Farm Service...............	9	1	220/110	100
6B	" " "	9	1 and 3	220/110	60
7A	Special Farm Service...............	15	1	220/110	According to load
7B	" " "	15	1 and 3	220/110	According to load

Class I: Hamlet Service—Includes service in hamlets, where four or more consumers are served from one transformer. This class excludes farmers and power users. Service is given under two sub-classes as follows:

> **Class 1-B:** Service to residences or stores. Use of appliances over 750 watts permanently installed is not permitted under this class.
>
> **Class 1-C:** Service to residences or stores with electric range or permanently installed appliances greater than 750 watts. Combinations of residence and store supplied from one service shall be not less than Class 1-C. Special or unusual loads will be treated specially.

Class II-A: House Lighting—Includes service to all residences that cannot be grouped as in Class I. This class excludes farmers and power users.

Class II-B: Farm Service, Small—Includes service for lighting of buildings and power for miscellaneous small equipment and power for a single-phase motor not exceeding 2 horsepower or an electric range (motor and range not to be used simultaneously) on a small farm of fifty acres or less.

Class III: Farm Service, Light—Includes service for lighting of farm buildings, power for miscellaneous small equipment, power for single-phase motors not exceeding 3 horsepower and electric range. Range and motor are not to be used simultaneously.

Class IV: Farm Service, Medium Single-Phase—Includes service for lighting of farm buildings and power for miscellaneous small equipment, power for single-phase motors up to 5-horsepower demand or an electric range. Range and motor are not to be used simultaneously.

Class V: Farm Service, Medium 3-Phase—Includes service for lighting farm buildings and power for miscellaneous small equipment, power for 3-phase motors, up to 5-horsepower demand, or an electric range. Range and motor are not to be used simultaneously.

Class VI: Farm Service, Heavy—Includes service for lighting of farm buildings and power for miscellaneous small equipment, power for motors up to 5-horsepower demand and an electric range, or 10-horsepower demand without an electric range. Single- or three-phase service will be given at the discretion of the Hydro-Electric Power Commission of Ontario.

Class VII: Farm Service, Special—Includes service for lighting of farm buildings, power for miscellaneous small equipment, power for 3-phase motors from 10- to 20-horsepower demand and electric range. Single or three-phase service will be given at the discretion of the Hydro-Electric Power Commission of Ontario.

Note: Class IIB is the service usually supplied to small farms of fifty acres or less and Class III is the service usually supplied to ordinary farms of larger size. More than 90 per cent. of new contracts for farm service are in one or other of these two classes.

RURAL POWER DISTRICTS—MILES OF LINE, NUMBER OF CONSUMERS AND RATES—OCTOBER 31, 1930

NIAGARA SYSTEM

Rural power district	Miles of line	No. of consumers	Rural rates													
			Class and gross monthly service charge											Gross consumption charge		Prompt payment discount
			1B	1C	2A	2B	**3***	4	5	6A	6B	7A	7B	1st 14 hrs. use of class demand min. 30 kw-hrs.	All additional	
			$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	cents	cents	%
Acton N5 D1	8.03	19	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Ailsa Craig N4 D7	5.80	16	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Alvinston N18 D9	1.87	4	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10
Amherstburg N15 D3	51.70	506	1.30	2.33	1.60	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	3.5	2	10
Aylmer N11 D2	100.26	530	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	4.5	2	10
Ayr N12 D4	19.53	68	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Baden N7 D1	66.18	334	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	10
Beamsville N1 D4	122.70	837	1.35	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	3.5	2	10
Belle River N15 D2	35.96	348	1.35	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Blenheim N14 D3	47.68	265	1.45	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Bond Lake N3 D3	125.99	1,184	1.10	1.98	1.46	1.98	**2.36**	2.55	3.54	4.39	5.01	6.56	7.89	3	1.5	10
Bothwell N14 D10	28.44	110	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Brampton N13 D2	43.46	155	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Brant N12 D1	94.13	436	1.45	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	10
Brigden N18 D8	29.48	97	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10
Burford N12 D2	37.60	190	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	4.5	2	10
Caledonia N2 D5	72.97	355	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Chatham N14 D1	122.69	717	1.45	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	3.5	2	10
Chippawa N1 D7	11.08	121	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	3.5	2	10
Clinton N8 D11	49.88	262	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Delaware N4 D3	117.39	603	1.35	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Dorchester N4 D1	103.81	536	1.35	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Dresden N14 D12	23.60	71	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Drumbo N12 D5	40.70	214	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Dundas N2 D1	77.16	583	1.30	2.21	1.63	2.21	**2.64**	2.85	3.96	4.91	5.60	7.33	8.82	3	1.25	10
Dunnville N1 D9	6.75	41	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
		†	1.00	1.86	1.38	1.86	**2.22**	2.40	3.34	4.14	4.71	6.18	7.42	3.5	2	10

Dutton	N11	D3	34.88	139	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Elmira	N7	D3	14.46	65	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Elora	N5	D4	30.49	196	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Essex	N15	D7	77.99	397	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4.5	2	10
Exeter	N4	D6	59.65	513	1.45	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Forest	N18	D6	23.06	76	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Galt	N6	D2	27.63	254	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	10
Georgetown	N5	D2	38.04	201	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Goderich	N8	D2	22.06	100	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Grantham	N1	D2	43.13	478	1.00	1.50	1.25	1.86	2.22	2.40	3.34	4.14	4.71	6.18	7.42	3	1.5	10
Guelph	N5	D3	79.17	463	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	10
				‡	1.20	2.15												
Haldimand	N2	D8	38.32	201	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4.5	2	10
Harriston	N8	D5	12.01	32	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Harrow	N15	D4	65.11	534	1.45	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4.5	2	10
Ingersoll	N10	D3	152.10	508	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5.5	2	10
Jordan	N1	D3	30.61	311	1.05	1.86	1.38	1.86	2.22	2.40	3.34	4.14	4.71	6.18	7.42	3	1.5	10
Keswick	N3	D5	29.03	773	1.20	2.10	1.55	2.10	2.50	2.70	3.75	4.65	5.30	6.95	8.35	4	2	10
Kingsville	N15	D5	104.91	1,234	1.00	1.80	1.25	1.98	2.36	2.55	3.54	4.39	5.01	6.56	7.89	3	2	10
Listowel	N8	D8	43.00	221	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
London	N4	D2	175.16	1,838	.90	1.65	1.15	1.75	2.22	2.40	3.34	4.14	4.71	6.18	7.42	3	1.5	10
Lucan	N4	D5	31.19	121	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Lynden	N2	D2	39.62	210	1.45	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Markham	N3	D1	86.02	639	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Merlin	N14	D15	49.85	209	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Milton	N13	D3	36.54	243	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Milverton	N8	D9	19.83	93	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Mitchell	N8	D7	52.75	277	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4.5	2	10
Newmarket	N3	D4	46.84	275	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Niagara	N1	D1	47.87	257	1.20	2.15	1.63	2.21	2.64	2.85	3.96	4.91	5.60	7.33	8.82	3	1.5	10
Norwich	N10	D1	87.36	400	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3.5	2	10
Oil Springs	N18	D3	13.42	96	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Palmerston	N8	D6	23.33	68	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Petrolia	N18	D5	12.88	53	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Preston	N6	D1	106.00	847	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	1.25	10

*See footnote on page 73.
†Lowbanks extension.
‡Suburban area.

RURAL POWER DISTRICTS—MILES OF LINE, NUMBER OF CONSUMERS AND RATES—OCTOBER 31, 1930

NIAGARA SYSTEM—Continued

Rural power district		Miles of line	No. of consumers	Rural rates													
				Class and gross monthly service charge											Gross consumption charge		Prompt payment discount
				1B	1C	2A	2B	3	4	5	6A	6B	7A	7B	1st 14 hrs. use of class demand min. 30 kw-hrs.	All additional	
				$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	cents	cents	%
Ridgetown	N14 D2	84.79	659	1.35	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
St. Jacobs	N7 D2	49.65	315	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	10
St. Marys	N9 D1	85.76	327	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
St. Thomas	N11 D1	136.90	988	1.35	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	10
Saltfleet	N17 D1	84.57	997	1.35	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	10
Sandwich	N15 D1	120.43	2,055	1.00	1.86	1.38	1.86	**2.22**	2.40	3.34	4.14	4.71	6.18	7.42	3.5	1.5	10
Sarnia	N18 D4	83.63	1,064	1.35	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	3.5	2	10
Scarboro	N3 D2	60.50	459	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Seaforth	N8 D10	10.35	120	1.10	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Simcoe	N12 D6	34.26	212	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Stamford	N1 D6	10.76	296	1.30	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	10
Stratford	N8 D4	30.60	207	1.35	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	3.5	2	10
Strathroy	N4 D4	66.74	195	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Streetsville	N13 D1	81.61	355	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	3.5	2	10
Tavistock	N8 D1	61.64	251	1.45	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Thamesville	N14 D11	44.16	210	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Tilbury	N14 D14	36.83	174	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Tillsonburg	N10 D4	103.46	517	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	3.5	2	10
Wallaceburg	N14 D13	75.16	485	1.35	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Walsingham	N12 D7	46.72	233	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Walton	N8 D3	31.96	205	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Waterdown	N2 D3	32.76	325	1.20	2.10	1.55	2.10	**2.50**	2.70	3.75	4.65	5.30	6.95	8.35	3	1.25	10
Waterford	N12 D3	50.99	208	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Watford	N18 D7	14.75	49	1.50	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10
Welland	N1 D5	239.20	2,226	1.00	1.86	1.38	1.86	**2.22**	2.40	3.34	4.14	4.71	6.18	7.42	3	2	10
Woodbridge	N16 D1	170.14	845	1.45	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	3	2	10
Woodstock	N10 D2	118.60	600	1.30	2.33	1.72	2.33	**2.78**	3.00	4.17	5.17	5.89	7.72	9.28	3	2	10

Total, Niagara system...5,166.07; 35,501.

GEORGIAN BAY SYSTEM

Alliston	S32	D1	20.78	116	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Arthur	E13	D2	1.40	5	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Bala	GB13	D1	27.46	151	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Barrie	S4	D1	40.70	310	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Beaumaris	M7	D1	17.32	154	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Beaverton	W2	D1	2.80	23	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Beeton	S33	D1	.33	1	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Bradford	S37	D1	.90	3	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Buckskin	S24	D1	.94	14	1.80	3.30	2.25	3.45	4.55	4.75	5.75	7.35	8.30	10.90	13.20	8	2	10
Cannington No. 1.	W3	D1	3.25	23	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Cannington No. 2.	W3	D2	5.30	23	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Chatsworth	E3	D1	.00	21	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Creemore	S10	D2	14.80	60	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Elmvale	S7	D1	24.90	144	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5.5	2	10
Flesherton	E1	D1	1.56	24	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6.5	2	10
Georgina	W2	D2	10.90	98	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Hawkestone	S9	D1	22.11	110	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	10
Holstein	E7	D1	.00	2	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Innisfil	S31	D1	23.45	273	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6.5	2	10
Lucknow	E24	D1	.10	2	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Mariposa	W9	D1	43.46	272	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
				*	1.20	2.20												
Markdale	E1	D2	1.22	4	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Meaford	E14	D1	.66	2	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10
Medonte	S18	D1	2.25	18	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Midland	S1	D1	6.50	35	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Neustadt	E8	D1	.33	1	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Nottawasaga	S5	D1	7.84	88	1.25	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Orangeville	E12	D1	17.70	51	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Port Perry	W12	D1	45.05	256	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Ripley	E24	D2	4.30	12	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Shelburne	E10	D1	5.68	20	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Sparrow Lake	W1	D1	17.51	136	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Tara	E15	D1	21.95	107	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10

*Greenbank extension.

RURAL POWER DISTRICTS—MILES OF LINE, NUMBER OF CONSUMERS AND RATES—OCTOBER 31, 1930

GEORGIAN BAY SYSTEM—Continued

Rural power district	Miles of line	No. of consumers	Rural rates: Class and gross monthly service charge: 1B	1C	2A	2B	3	4	5	6A	6B	7A	7B	Gross consumption charge: 1st 14 hrs. use of class demand min. 30 kw-hrs.	All additional	Prompt payment discount
			$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	cents	cents	%
Thornton........ S36 D1	7.50	31	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Utterson........ M8 D1	12.03	50	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10
Uxbridge........ W11 D1	48.05	175	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Walkerton Quarry E26 D1	1.60	5	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Wasaga Beach... S10 D1	12.25	460	1.25	3.00	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	2	10
Wroxeter........ E23 D1	34.00	219	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	8	2	10

Total, Georgian Bay system, 508.88; 3,499.

EASTERN ONTARIO SYSTEM

Rural power district	Miles of line	No. of consumers	1B	1C	2A	2B	3	4	5	6A	6B	7A	7B	1st 14 hrs. use of class demand min. 30 kw-hrs.	All additional	Prompt payment discount
Alexandria....... L15 D1	15.00	68	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10
Arnprior........ QG10 D1	4.50	29	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Belleville........ C38 D1	69.59	572	1.20	2.15	1.45	2.25	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Bowmanville..... C23 D1	15.05	58	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Brighton........ C6 D1	5.58	43	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Brockville....... L3 D1	72.05	485	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Campbellford.... C11 D1	18.65	61	1.20	2.15	1.50	2.25	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Chesterville...... L5 D1	46.95	313	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Cobourg......... C13 D1	58.84	283	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Colborne........ C7 D1	20.25	111	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Deseronto....... C42 D1	.25	1	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10
Iroquois......... L9 D1	80.00	391	Special.													
Kemptville...... H9 D1	2.50	8	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Kingston........ C44 D1	65.77	395	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Lakefield........ C18 D1	.00	1	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10

Lindsay	C29 D1	1.16	9	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Martintown	L13 D1	15.03	115	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10
Maxville	L14 D2	50.10	330	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	*7	2	10
															5	2	10
Millbrook	C25 D1	11.75	71	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Napanee	C43 D1	65.73	312	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Newcastle	C22 D1	23.10	111	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Norwood	C31 D1	5.01	39	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Oshawa	C24 D1	58.94	755	1.00	1.86	1.38	1.86	2.22	2.40	3.34	4.14	4.71	6.18	7.42	3.5	2	10
Peterboro	C20 D1	51.34	896	.63	1.16	.79	1.21	1.59	1.66	2.01	2.57	2.91	3.81	4.62	4	2	10
Pickering	C24 D2	16.25	169	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	4	2	10
Port Hope	C16 D1	16.34	93	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Prescott	L2 D1	35.47	181	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10
Renfrew	QM16 D1	5.50	8	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Smiths Falls	H3 D1	49.47	270	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Stirling	C35 D1	28.46	101	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Trenton	C3 D1	40.55	173	1.35	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	5	2	10
Warkworth	C49 D1	.33	5	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Wellington	C45 D1	69.83	282	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	6	2	10
Williamsburg	L7 D1	10.44	43	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10

Total, Eastern Ontario sys., 1,029.78; 6,782.

*Apple Hill Section.

EASTERN ONTARIO SYSTEM—OTTAWA DISTRICT

Nepean	T1 D1	120.74	743	1.50	2.33	1.72	2.33	2.78	3.00	4.17	5.17	5.89	7.72	9.28	3	1.5	10

NORTHERN ONTARIO SYSTEM—NIPISSING DISTRICT

North Bay	Z4 D1	5.00	190	1.10	2.00	1.35	2.10	2.78	3.00	4.17	5.17	5.89	7.72	9.28	7	2	10

Total, all systems: Miles of line, 6,830.47. Number of consumers, 46,715.

SECTION IV

HYDRAULIC ENGINEERING AND CONSTRUCTION

Among the activities of the Hydraulic department during the past year, three merit special notice. These are the completion by the addition of the tenth unit of the Queenston plant on the Niagara river, the advancement to the operating stage of the Alexander Power development on the Nipigon river, and the commencement of construction of the Chats Falls development on the Ottawa river. Particular interest attaches to the first of these, for, while there are no radical differences in design or arrangement of this unit and those built previously, it marks the completion of the most outstanding, in capacity and efficiency, of plants developing power from waters of the Niagara river. It is interesting to note that, while nine years have elapsed since the first unit came into service, the plant still maintains its leadership in these particulars.

The construction of the dam at the Alexander Power development was marked by exceptional speed in placing materials, in order to take full advantage of the period of suitable weather for the work.

The work on the development at Chats Falls is proceeding rapidly. This plant, when completed, will be one of the largest in Canada, being exceeded in size only by the Queenston plant and a few others in the Province of Quebec.

Reference is made below to maintenance work on a number of structures in the Georgian Bay, Eastern Ontario and Northern Ontario systems, and to investigations proceeding on undeveloped sites at various places in the province.

NIAGARA SYSTEM

Queenston-Chippawa Development

The tenth and last unit at the Queenston development was completed and brought into service during the summer of 1930. The installation is, in general, similar to the other main units in the plant, but there were certain changes in design, outstanding among which were those in the headworks. A considerable amount of rock excavation was carried out in the extension of the forebay and headworks below minimum water level in the forebay, and to do this safely and economically, the forebay and intake structure extensions were designed with a floor elevation five feet higher than for units Nos. 1 to 9, and the construction programme was so arranged as to prevent any hazard during the course of the work.

ONTARIO POWER PLANT—NIAGARA FALLS
General view of construction of concrete envelope for No. 3 wood stave conduit

Turbine unit No. 10 was built by the Dominion Engineering Works of Montreal, and has a rated capacity of 58,000 horsepower under a head of 294 feet. A Pelton-Morris governor is used, built by the I. P. Morris Company of Philadelphia.

ONTARIO POWER PLANT—NIAGARA FALLS
Typical view of concrete envelope, steel reinforcing and forms for No. 3 wood stave conduit

The completion of this unit has permitted the completion of the end wall of the power house and the substitution of permanent concrete structures for the wooden bulkheads formerly installed, to protect the plant from flooding due to high water in the Niagara river. Protective work is proceeding on the cliff to the north of the power house.

Ontario Power Conduit

A concrete envelope was constructed around a large part of No. 3 conduit at the Ontario Power plant, the work being carried out by the Construction department under the direction of the Hydraulic department. This conduit was built in 1918 as an emergency measure, along with the installation of two 15,000 horsepower units, additional power output being urgently required at that time. It is 6,850 feet long, 13 feet 6 inches in diameter, and, as a measure of economy—it being looked upon as a temporary installation—was built of 4-inch wood staves. A portion of it at each end was provided with a concrete envelope at the time of construction, but about 4,500 feet was left exposed in open trench. This is the portion that has now been provided with a concrete envelope. The improvement was required under agreement with the Queen Victoria Niagara Falls park, and makes this conduit a permanent water passage.

The concrete in the envelope has a minimum thickness of 15 inches, is reinforced with two circumferential rings of plain round bars, designed for full water pressure without any allowance for the strength of the banding of the wood stave pipe. Sufficient longitudinal steel was used to resist the maximum temperature stresses expected. The conduit was kept in service throughout the whole period during which the concrete was being poured.

Dominion Power and Transmission Company

The Commission acquired the properties of the Dominion Power and Transmission Company during the year, taking possession on August 14th. Included in these properties is the hydraulic plant at DeCew Falls, which draws its water supply from lake Erie via the Welland canal, and has a capacity of 52,000 horsepower. The operating head is 267 feet, and there is a storage basin of substantial capacity, which eventually will be of great value in conjunction with the existing plants of the Niagara system. Since the plant was acquired, some maintenance work has been done on the penstocks and tailrace.

GEORGIAN BAY SYSTEM

The first plant built by the Commission at Wasdells Falls, in 1913-1914, has been in continuous service since that time. Examination of the substructure of the power house some time ago showed that the concrete was eroded to a considerable depth, especially at and near water surface. Similar deterioration had taken place in the curtain wall of the power house, tailrace wall, and deck and piers of the dam.

The plant was shut down during the past summer, and complete repairs effected to the whole power house substructure and to the floors and piers of the sluiceways. Gunite was used liberally, and foundations of piers and sluiceway floors were thoroughly repaired.

Repairs were also required on the main dam at the Eugenia development. This dam is of the Ambursen type, having a thin reinforced slab supported on buttresses. It is the principal structure used to form the large storage basin upon which the development depends for its water supply in the prolonged periods of deficient river flow. Inspection of the dam from time to time showed deterioration of some of the concrete in the structure, due to the action of the water.

Repairs were effected, without interfering with the operation of the reservoir. The new part of the structure is independent of any original parts for strength or water-tightness. This dam was built in 1914, and these repairs are the first that have been necessary.

At the No. 2 plant at Bala, which was acquired by the Commission in 1929, where a single vertical propeller wheel is installed, it was necessary to reconstruct the throat ring and draft tube, which were found to be structurally weak.

CHATS FALLS DEVELOPMENT—OTTAWA RIVER
Main cofferdam from the downstream side

EASTERN ONTARIO SYSTEM

Chats Falls Development

Work has proceeded rapidly on this new development on the Ottawa river. At the beginning of November, 1929, surveys were in progress on both sides of the river at the power site, those in Ontario being carried out by the staff of the Commission, and those on the Quebec side by the Montreal Engineering Company. These surveys developed the topography of land surfaces and river bed upon which the permanent power development structures are being placed, and of the lands in the vicinity in any way affected by the works.

At that time also, work was proceeding upon the clearing of the site and flooded areas, the construction of the main upstream cofferdam, the building of a railway siding into the site and the erection of camps for living accommodation of the working force.

The main cofferdam closes the channel about 2,200 feet wide between Mohr and Kidney islands, and extends to high ground on Mohr and Victoria islands. The portion spanning the channel between Mohr and Kidney islands is a pier and stop-log structure, which will permit the passage of flood waters through certain of the chutes to the right of the power house site. The maximum flow of the river during the spring and early summer months of 1930 did not exceed 110,000 cubic feet per second, and it was therefore unnecessary to open the sluiceways in the cofferdam except for eighteen days in July, as the various chutes remaining unobstructed had sufficient discharging capacity to carry off the whole flow for all other periods at moderate stages of water level above the cofferdam. Behind the protection of the main cofferdam and in the channels unwatered by it, a secondary cofferdam was built to protect the power house site at times when the sluices are opened in the main cofferdam. The main and secondary cofferdams were completed by the middle of April, thus unwatering the power house site down to tailwater level. The tailwater cofferdam was under construction by this time.

The temporary buildings for accommodation of the working force are located on Victoria and Mohr islands. Provision is made for 1,440 men, half the space being provided on each of the islands named. A permanent railway connection to the Canadian National Railway, almost a mile in length, was built, and, in addition, more than two miles of standard gauge line to serve as construction railway. This latter line is carried from Kidney to Mohr island by the main cofferdam. Two permanent plate girder bridges were required for the permanent track.

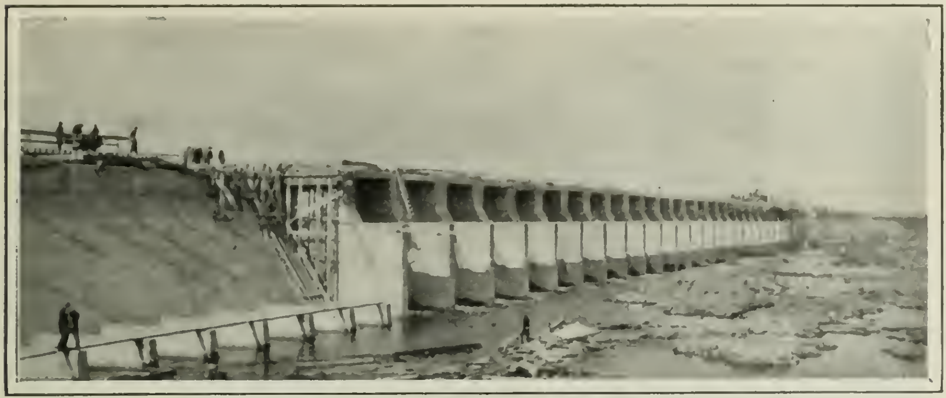
During the early months of the year, design of structures proceeded rapidly in the office, and the location of many of the permanent structures was finally determined based on conditions obtaining at the site. The location of the power house and sluice gates and the line of the dam between Chats island and Wolverine chute was determined after a careful examination of the ground.

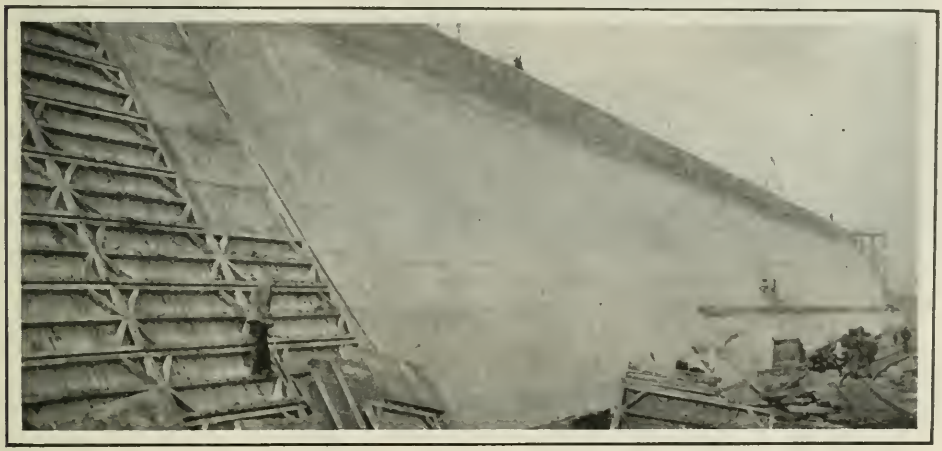
During the spring months, rock excavation proceeded at the power house site, and preparation of the dam foundation for pouring of concrete had been completed at a number of places. Concreting was commenced in June on a section of the gravity dam on Mohr island. During the summer months, construction proceeded rapidly in many sections of the development. A great portion of the bulkhead section of the dam was completed, as also were the Ragged chute and Wolverine chute sluices. At the end of the year, power house excavation was completed and concrete was being poured in headworks and foundation.

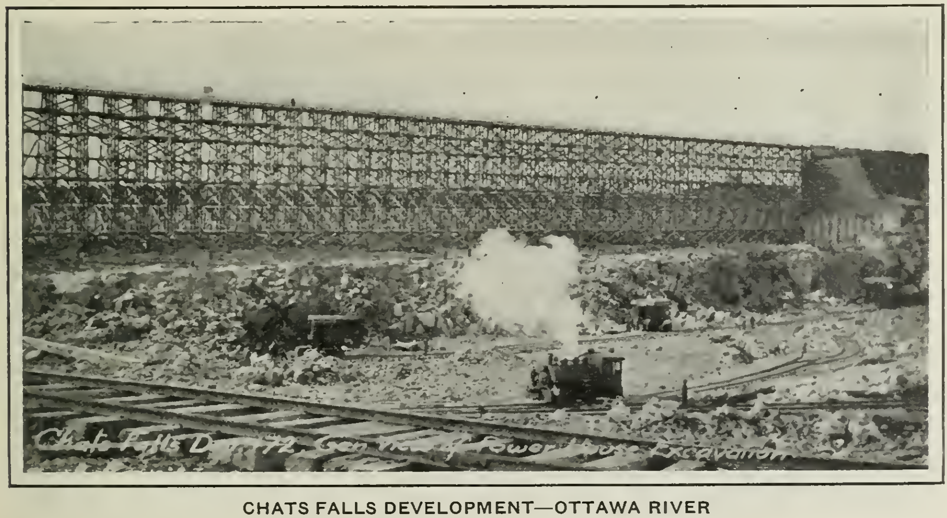
The power house is designed to accommodate ten turbine units of 28,000 horsepower each, of which eight are to be installed at present, and the contract for these has been awarded to the Dominion Engineering Works of Montreal. The general contractors for the development are Morrow and Beatty of Peterborough and Toronto.

Madawaska District

Increased storage facilities were necessary on the Madawaska river, to enable the Calabogie development to meet increasing load demands during periods of deficient river flow. The Calabogie development is one of those purchased from the M. J. O'Brien Company over a year ago, along with other developed and undeveloped power and storage sites in the district. The plant







CHATS FALLS DEVELOPMENT—OTTAWA RIVER

Ragged chute sluices completed, October 31, 1930
Bulkhead dam on Chabot Island to right of power house
General view of power house excavation, September 26th, 1930

had been called on to supply power for construction purposes at the new Chats Falls development on the Ottawa. To provide the required storage facilities, a dam at the outlet of Bark lake was rebuilt. The old dam was removed to the original apron level, and rebuilt to store a depth of six feet of water on the lake. The rebuilt dam is 350 feet long, half of rock-filled timber cribwork and half of earth fill.

ALEXANDER POWER DEVELOPMENT—NIPIGON RIVER
Water flowing over spillwall

THUNDER BAY SYSTEM

The Alexander power development on the Nipigon river came into service in October, 1930. This development is the second constructed on the river by the Commission and, like the first, supplies power to the Thunder Bay system.

The Nipigon river from Lake Nipigon to Lake Superior has a fall of about 250 feet, varying slightly with the relative stages of water level in the two lakes. Of this head, the Cameron Falls development utilized 75 feet, and the Alexander development 60 feet. About 100 feet of head is still available for development above the Cameron Falls plant.

The last annual report gave a general description of the scheme of development, and showed views of the main and auxiliary dams taken toward the close of the construction season of 1929. With the opening of work in the spring of this year, work was pressed on the construction of the main dam, which is a semi-hydraulic earth fill. The heavy rock-filled toe that was built to ensure perfect drainage and to give stability to the dam, had been placed previously, and the foundation prepared before the present season. Material for the earth fill was obtained from borrow pits on the east bank of the river, whence it was taken in dump cars and dumped from trestles along each side of the central pool. Some of the borrow pits were in sand, while others were in pure clay, so that any mix desirable could be obtained by regulating the amount from each of the pits.

ALEXANDER POWER DEVELOPMENT—NIPIGON RIVER
Main dam, looking toward power house

Sluicing was done by two monitors, each placed on a float in the segregation pool. Pressure was supplied by centrifugal pumps, direct connected to electric motors. The pumps were 6 inch by 6 inch two-stage units, equipped with nickel-iron impellers to resist the heavy abrasive action of water carrying a large percentage of silt. The total yardage in the dam is about 800,000 cubic yards, of which 650,000 cubic yards is semi-hydraulic fill, and from the time the season opened in May, up to the end of September, there were 580,000 cubic yards placed, the rate being greatest in June, when about 159,000 cubic yards were placed.

The nature of the river bed upstream from the dam called for a protecting blanket of clay. This was sluiced in from material on either side of the river to a depth ranging from four to six feet and extending upstream about 400 or 500 feet.

ALEXANDER POWER DEVELOPMENT—NIPIGON RIVER
Headworks

In the interest of economy in the design of the headworks, the superstructure, usually considered necessary where low winter temperatures are experienced, was omitted. The motors and hoists for operation of the head gates are housed in a structure, about 7 feet high, along the upstream side of the power house. The placing and removal of stop-logs, racks and head gates is done by a locomotive crane operating on a standard gauge track on the headworks deck.

All openings over the stop-log and rack checks have matched plank covers fitted for quick handling, so that with the concrete curtain walls extending below low headwater level for each intake, the gate checks and racks are well protected. In addition to this, openings are provided, through which the warm air from the power house has free access to the space below the headworks deck. Provision has also been made for the provision of electric heaters, if found necessary.

Construction work was practically completed by the end of the third week in September, 1930. Plans were made for the closure of the outlets of the diversion channel to the left of the power house, through which all the water of the Nipigon river passed during construction of the dam. For several days before the closure, the headpond levels at the Cameron Falls station were regulated to meet the period of shut-down without wasting into the Alexander reach, and to allow ample time to draw down the Alexander headwater pool to permit the steel gates to be placed in the diversion sluiceways.

When the time came for making the closure, the gates were assembled above their respective openings, and suspended on "A" frames in readiness for lowering into the checks. On Sunday, September 28, at 4 a.m., the Cameron Falls plant was closed down and the flow in the river completely stopped, the forebay at the Cameron Falls plant receiving and holding the whole flow of the river coming down from lake Nipigon. By 7 a.m., the water in the Alexander reach had fallen so low that only a shallow stream was passing through the two sluices. The gates were dropped into place and sealed. At 10.25 a.m., the entire closure had been completed, and by 10.45 the Cameron Falls plant was again carrying load. Early the following morning, the forebay at Alexander had been filled to operating level, and water began to flow over the spillwall, and by evening the depth of flow over the spillwall was three feet. Under the full head, all structures proved to be entirely water-tight. The first unit was turned over on October 1, and commercial load was first carried on October 21.

NORTHERN ONTARIO SYSTEM

Nipissing District

Continuing a policy of progressively renewing and improving structures used for storage of water in this system, a concrete sluice and weir was built at the Craig Lake dam. This is one of a number of dams used to control the lakes tributary to the South river, for the purpose of conserving water for power development. The portions of the dam replaced were built of rock-filled timber cribwork. The new portions are thus of a much more permanent character.

Investigations were carried on regarding damages due to flooding on Wahnapitae lake, and the rights to flood certain lands to an additional depth of two feet were purchased. The storage dam at the outlet of the lake was completed in time to conserve the spring run-off in 1930. A temporary side dam was built at plant No. 2.

Patricia District

The generating station at Ear Falls, on the English river, was completed early in the fiscal year, and the unit was first turned over on Christmas day, 1929. The plant was built to supply power for mining development in the district, and has been carrying such a load since the early part of the year. There is one unit, having a capacity of 5,000 horsepower under a head of 36 feet, but the plant is designed for extension later, if necessary, to develop 30,000 horsepower.

A control dam was built at Manitou rapids, on the English river, about 15 miles downstream from Ear Falls. The design and supervision of this was handled by the staff of the Commission for the Northern Development Branch of the Department of Lands and Forests of the Province of Ontario. A year ago, navigation improvements were made in the route by way of the English and Chukuni rivers to Red lake. During periods of deficient flow in the English river, navigation depths were reduced to such an extent as to hamper navigation in that part of the English river between Ear Falls and the mouth of the Chukuni river. The dam at Manitou rapids raises the water level in the English river between Ear Falls and Manitou, thus increasing the navigable depth.

HYDRAULIC INVESTIGATIONS

Nipigon River

With the completion of the Alexander Power development on the Nipigon river, the lower portion of the river from the headwater of the Cameron Falls development to lake Superior is completely developed. There remains a potential development of somewhat more than 100 feet between the Cameron Falls development and lake Nipigon. Several alternatives are possible. The whole head may be developed at one site, or at two sites; in the latter method it is possible to make different divisions of the total head between the two sites. In order to permit careful study of the various possibilites, and to ensure the choice of the most economical arrangement, extensive surveys were carried out on this portion of the river and the topography was developed in detail at possible power sites. Studies of the information collected on this survey are progressing.

Investigations have also continued on a number of other prospective power developments on the Mississagi, Aux Sables, Musquash and South Muskoka rivers. Hydraulic tests were made at the Elliott Chute and Bingham Chute plants on the South river, and the Trethewey development on the South Muskoka.

St. Lawrence River

Reference was made in the last annual report to the appointment by the Ontario government of the chief engineer and chief hydraulic engineer as a committee to co-operate with the Canadian section of the Joint Engineering Board, which has been investigating power and navigation developments on the river. A number of conferences were held and a plan agreed upon, by which differences in various Canadian schemes for development of the International reach of the river were adjusted.

In connection with the proposed development of the St. Lawrence river, further studies were made respecting the protection of the villages of Morrisburg and Iroquois from flood damage.

SECTION V

ELECTRICAL ENGINEERING AND CONSTRUCTION

(STATION SECTION)

NIAGARA SYSTEM

Generating Stations on the Niagara River

Number ten generator at Queenston generating station with transformers and switching equipment was placed in service in July. The generator differs from the other machines in that it is a totally enclosed unit and the cooling air is re-circulated through water-coolers. An automatic system of fire-protection apparatus using carbon dioxide was permanently installed with No. 10 generator. Similar equipment was completed for the other generators.

Transformer and Distributing Stations

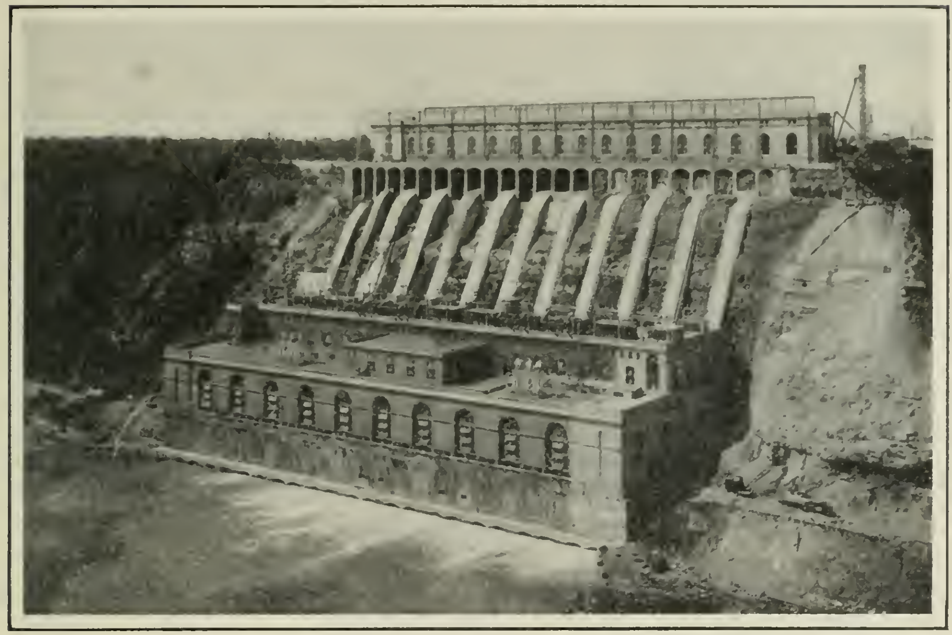
Niagara District—The new transformer stations at Welland, Thorold, Port Colborne and Cyanamid mentioned in last year's Annual Report were completed during the year.

A new pole-type station known as Beaverdam distributing station, consisting of a bank of three 150-kv-a. transformers and the necessary switching and metering equipment, was installed at the Thorold transformer station site.

Increased transformer capacity was provided at Lincoln distributing station by replacing one of the 300-kv-a., three-phase transformers with a bank of three 250-kv-a. units, and at Port Colborne distributing station by replacing the star-connected 1,500-kv-a., three-phase transformer with two 1,500-kv-a. units delta-connected on the high-voltage side.

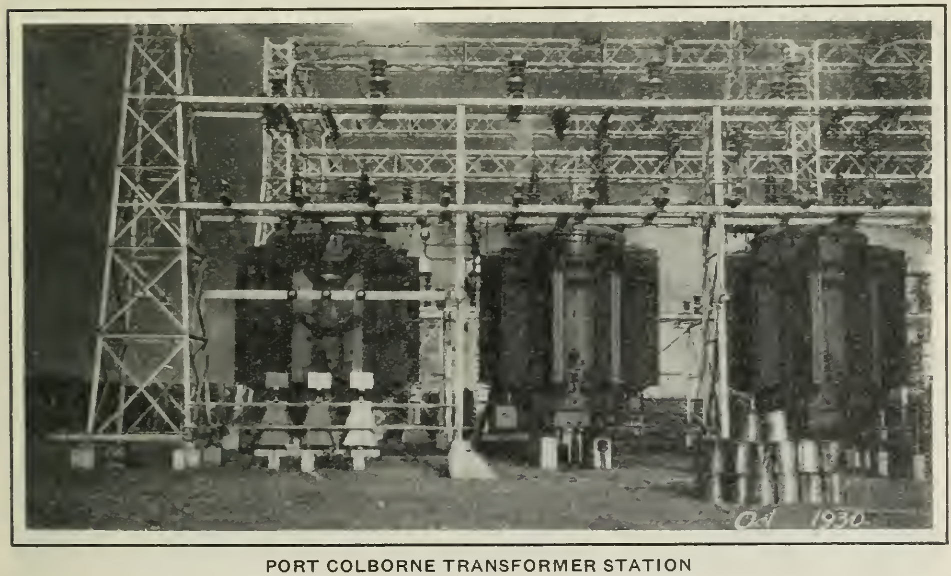
Changes were made in the switching equipment at Port Colborne transformer station and Welland switching station, and changes to metering equipment were made at Grimsby distributing station and at the metering stations at Niagara Falls municipal station, International Nickel, Lionite Abrasives Limited and Interlake Tissue mills.

Engineering assistance was given to the municipality of Dunnville in the purchase and installation of three 300-kv-a. transformers to replace a bank of three 150-kv-a. units, together with necessary changes in switching equipment, and to the municipality of Merritton in the installation of additional 2,300-volt feeder equipment.



QUEENSTON GENERATING STATION—NIAGARA RIVER

The completed station as seen from the United States side of the river showing the addition for the tenth unit at the north end



PORT COLBORNE TRANSFORMER STATION

Hamilton and Dundas District—Authorization has been given and work is well advanced on a new outdoor, 110,000-volt transformer station in Hamilton at the corner of Cannon and Stirton streets to be known as Hamilton-Stirton transformer station. The plans include the installation of four 5,000-kv-a. transformers, with steel structures and switching equipment for one 110,000-volt incoming line and three 13,200-volt outgoing feeders. The station will be placed in service before the end of the year.

In addition to the completion of the work, authorized last year, at Hamilton transformer station, further work is well advanced on a new 110,000-volt outgoing line equipment to supply power to the Hamilton-Stirton transformer station.

Improved switching and protection facilities were provided at Dundas transformer station by the replacement of some obsolete 110,000-volt oil circuit-breakers and lightning-arresters by modern equipment.

The three 5,000-kv-a. transformers purchased last year for Dundas transformer station were not installed. One of these will be used as a spare at Dundas, while the other two will be transferred to system reserve and moved to Hamilton transformer station, where they will be placed on foundations with the spare unit already there, ultimately forming the fourth bank.

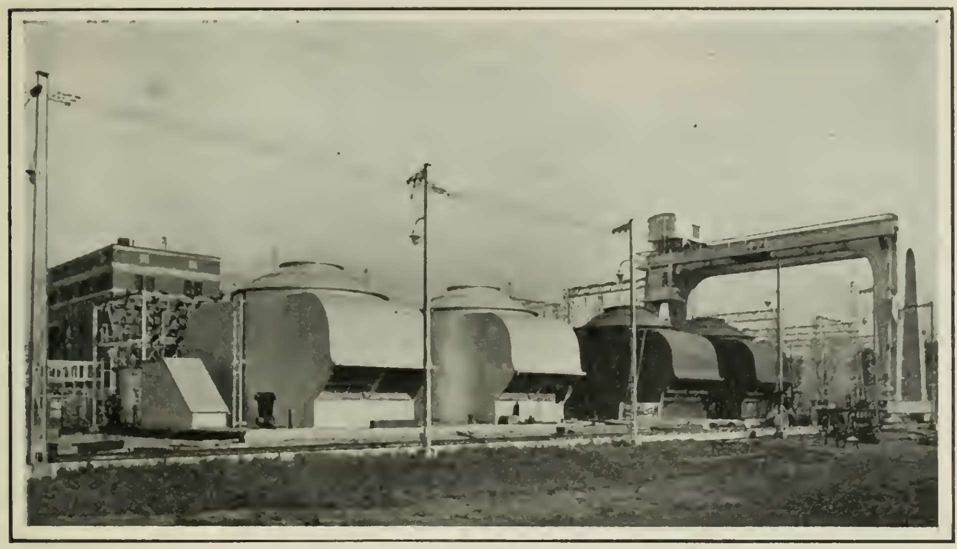
At Dundas rural power district distributing station, increased transformer capacity was provided by the installation of three 250-kv-a. transformers replacing a bank of three 150-kv-a. units. Additional capacity was also provided at Caledonia distributing station by the installation of a fourth 300-kv-a., three-phase transformer.

Improvements were made at Decewsville and Hagersville distributing stations by changes in the metering equipment.

Toronto and York District—At Toronto-Leaside transformer station, work has proceeded on the erection of the equipment and structures required to receive the final blocks of power on the present Gatineau contract. This includes the erection of the third and fourth 25,000-kv-a. synchronous condensers and the necessary switching, auxiliary and control equipment, the installation of the third and fourth banks of transformers, the four 220,000-volt oil circuit-breakers and the 13,200-volt switching equipment mentioned in last year's Annual Report. The 13,200-volt equipment does not duplicate that previously installed, but consists of an installation of outdoor metal-clad switchgear. The major portion of the work is completed and all the equipment will be in service before 1931.

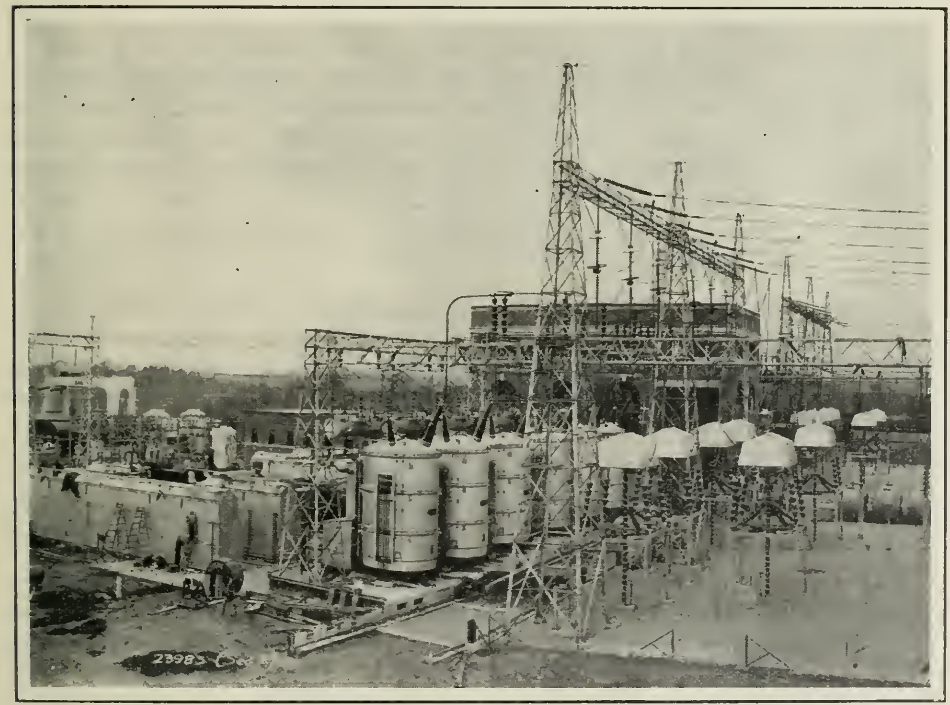
Improvements at Toronto-Strachan avenue transformer station include the installation of new relay equipment on the six transformer banks, the purchase and installation of new ammeters for the four 110,000-volt lines and lighting and ventilation equipment for the transformer station, also the replacement of an obsolete 110,000-volt oil circuit-breaker with one of modern design.

At Toronto-Bridgman transformer station the installation of the four new oil circuit-breakers in the 110,000-volt line position mentioned in the last year's Annual Report, was completed. Authorization was given for the installation of a 30,000-kv-a. bank of transformers, a spare 10,000-kv-a. unit and necessary 110,000-volt and 13,200-volt switching equipment. An order has been placed for seven 10,000-kv-a. transformers, three of which will be later used to replace 5,000-kv-a. units.



TORONTO—LEASIDE TRANSFORMER STATION

Outdoor Synchronous Condensers 25,000 kv-a. capacity



TORONTO—LEASIDE TRANSFORMER STATION

No. 3 and No. 4 Transformer Banks and 13,200-volt equipment

Authorization was given for the purchase and installation of a new high-interrupting-capacity oil circuit-breaker at Toronto-Wiltshire transformer station to replace one of lower interrupting capacity. This work was completed in March.

At York Mills distributing station it was found necessary to rewind the old 300-kv-a., 12,000-volt transformers for 13,200-volt service. The transformers with new windings were replaced in service in February.

Improvements in the metering equipment were made at Sharon distributing station.

Two new semi-outdoor stations were erected and placed in service, namely, Woodbridge and Toronto Township (Rifle Ranges) distributing stations, using three new 250-kv-a. single-phase units at each station. The old Woodbridge distributing station was dismantled.

An additional 3,000-kv-a. transformer has been purchased for New Toronto distributing station to replace an existing 1,500-kv-a. unit. The breakers, bus supports and feeders are being replaced by heavier capacity equipment. The work should be completed in 1931. The 3,000-kv-a. transformer purchased a year ago as a spare unit was installed and placed in service.

London District—Increased transformer capacity was provided at Dashwood distributing station by the addition of a bank of three 75-kv-a. transformers, together with the necessary pole-structure and switching equipment, and at Dorchester distributing station by the replacement of the indoor bank of three 75-kv-a. transformers with an outdoor bank of three 150-kv-a. units.

Authorization was given for the purchase and installation of a bank of three 75-kv-a., 4,000/4,600-volt transformers with switching and metering equipment to be known as Strathroy rural power district distributing station to supply power at 8,000-volts to the surrounding rural district from the 4,000-volt bus in Strathroy municipal station. Work was completed in October and the installation is ready to be connected into service.

Work was completed on the installation of two rural feeder-equipments at Glendale distributing station.

Guelph District—A second bank of 2,500-kv-a. transformers is being installed at Guelph transformer station. Two indoor 110,000-volt oil circuit-breakers and lightning-arresters are being replaced by two new breakers and lightning-arrester outdoors. The indoor 13,200-volt oil circuit-breakers are being removed and new breakers installed outdoors. The circuit-breakers are being made electrically operated and the relay protection is being improved. The present low-voltage room will be converted into a control room. The new equipment should be in service before the end of the year. A 2,300-volt feeder was installed to supply power to Guelph rural district.

The transformer capacity of Acton distributing station was increased by the installation of a new bank of three 250-kv-a. single-phase transformers replacing the three 75-kv-a. units. A 4,000-volt feeder was installed in Georgetown distributing station to supply power to the rural district.

Preston District—The station capacity was increased at Preston rural power distributing station by the installation of a bank of three new 250-kv-a. transformers replacing the three 150-kv-a. units. A three-phase 1,500-kv-a.

GUELPH TRANSFORMER STATION

transformer was purchased and installed in Hespeler municipal station replacing three 170-kv-a. units. Engineering assistance was given in the purchase of a 1,500-kv-a. transformer and switching equipment for Preston municipal station. Working drawings were made up and the construction work supervised.

Kitchener District—The necessary switching equipment was installed at Kitchener transformer station to connect in a 110,000-volt line to Hanover frequency-changer station for the supply of power to the Georgian Bay system.

Stratford District—A bank of three new 500-kv-a. transformers was installed at Listowel distributing station, replacing three 200-kv-a. units which were removed to and installed at Palmerston distributing station. A bank of three 150-kv-a. transformers released from the latter station was installed at Harriston distributing station and the 75-kv-a. units removed and transferred to system reserve. New lightning-arresters were installed on the incoming 26,400-volt lines at Milverton and Palmerston distributing stations.

St. Marys District—The 1,500-kv-a. three-phase transformer and three 500-kv-a. transformers in service at St. Marys Cement Company's distributing station were removed and installed in a new building erected by the Cement company. A new 1,500-kv-a. three-phase transformer was also purchased and installed in the new building, together with the necessary switching equipment.

St. Thomas District—St. Thomas transformer station capacity was increased when No. 1 bank of three 750-kv-a. transformers was replaced by a bank of three 1,250-kv-a. transformers.

Brant District—New lightning-arresters and air-break switches were purchased and installed on the 26,400-volt incoming lines at Ayr, Burford and Drumbo distributing stations. The necessary equipment was installed in Simcoe municipal station for a 4,000-volt feeder to supply power to the American Can Company. Engineering assistance was given in the purchase and installation of four new 2,300-volt feeder-panels with larger breakers, and a 24-volt battery with charger in Paris municipal station.

Cooksville District—The transformer capacity at Streetsville distributing station was increased by the purchase and installation of a bank of three new 250-kv-a. transformers replacing three 150-kv-a. units.

Kent District—Three 75-kv-a. transformers at Bothwell distributing station on the Glencoe-Newbury-Wardsville and rural feeder were replaced by a bank of three new 150-kv-a. units and the feeder was changed from 4,000 to 8,000-volts. Engineering assistance was given in the purchase and installation of a new 3,000-kv-a. three-phase transformer and current-limiting reactors in Chatham municipal station. Lightning-arresters and air-break switches were purchased and installed on the incoming 26,400-volt lines at Bothwell and Thamesville distributing stations.

Essex District—Work is underway for the installation of the fourth bank of three 5,000-kv-a. transformers in Essex transformer station. The transformers are purchased and installed, also all other necessary equipment, and will be placed in service in November of this year.

Engineering assistance is being given the Windsor Hydro-Electric system in the purchase and installation of an additional 3,000-kv-a. transformer and two induction regulators.

The capacity of Walkerville Junction distributing station was increased by the installation of a bank of three 250-kv-a. transformers replacing three 150-kv-a. units. Similarly, at Harrow distributing station a 300-kv-a. three-phase transformer was replaced by a bank of three new 250-kv-a. units.

Engineering assistance was given to the Windsor, Essex and Lake Shore Electric Railway Association in the purchase and installation of transformers, rotary-converters and switching equipment for three automatic 500-kw. rotary-converter stations at Maidstone, Cottam and Ruthven.

St. Clair District—Engineering assistance was given the Sarnia Hydro-Electric system in the preparation of plans and specifications for an extension to its municipal station No. 2 and in the purchase and installation of equipment for additional feeders

GEORGIAN BAY SYSTEM

Severn District—A new 50-kv-a. single-phase station was erected at Fergusonvale switching station. A bank of three new 1,000-kv-a. transformers and necessary switching equipment were purchased and installed at Barrie distributing station. The capacity of Innisfil distributing station was increased with the purchase and installation of a bank of three new 150-kv-a. transformers replacing the two 50-kv-a. units which were placed in system reserve. A 300-kv-a. station was erected at Painswick, three 100-kv-a. single-phase transformers being purchased for this installation. An outdoor station was erected at Midhurst to supply power to the rural district. For this installation, a three-phase, 75-kv-a. transformer was obtained from system reserve. A brick building for store-house, garage, workshop and office was erected at Waubaushene despatching station.

Eugenia District—Authorization was given for the installation of a frequency-changer station at Hanover to connect the 60-cycle Georgian Bay system with the 25-cycle Niagara system. A frequency-changer of 5,000-kv-a. capacity was purchased and installed in a building erected for the purpose. Seven 750-kv-a., 110,000/6,600-volt, 25-cycle transformers were transferred from Niagara system, a bank of three 2,500-kv-a., 22,000/4,400-volt, 60-cycle outdoor transformers and the necessary switching equipment were purchased and all installed and placed in service on September 6, 1930.

Two 1,500-kv-a. auto-transformers referred to in last year's Annual Report were placed in service at Eugenia generating station. A 750-kv-a. three-phase transformer was obtained from Hanover distributing station and installed on the Walkerton generating station site to tie in the Georgian Bay system with the newly acquired Foshay system. Similarly at Southampton a bank of three new 150-kv-a. single-phase transformers were purchased and are being installed in a new pole-type outdoor station on the generating station site.

A bank of three 75-kv-a. transformers was removed from Southampton generating station and installed and placed in service at the distributing station. A new 300-kv-a. station was also erected, using three new 100-kv-a. single-phase transformers. A new 75-kv-a. station was erected at Tara using a 75-kv-a. three-phase transformer obtained from system reserve. The bank of three 150-kv-a. transformers in service at Chesley distributing station was replaced by three new 250-kv-a. units.

Wasdells District—Three 150-kv-a. transformers released from Chesley distributing station were installed at Kirkfield distributing station replacing three 75-kv-a. units which were transferred to system reserve. Three new 25-kv-a., 2,300/575-volt transformers were also purchased and installed at this station to replace three 10-kv-a. units. The Greenbank distributing station was dismantled and the 300-kv-a. three-phase transformer was installed in a new station erected at Port Perry. Greenbank is now supplied from a 4,000-volt, single-phase feeder out of the Uxbridge distributing station. A station was erected at Uxbridge and a new 300-kv-a. transformer purchased for this installation.

Muskoka District—A 300-kv-a. station was erected and placed in service at Utterson, three new 100-kv-a. single-phase transformers being purchased for this purpose. A spare 400-kv-a. transformer was purchased for Gravenhurst distributing station.

Bala District—A bank of three new 150-kv-a. transformers and the necessary switching equipment were purchased and installed at Bala where a new station was erected. Provision was made at this station for future capacity of 1,500-kv-a.

EASTERN ONTARIO SYSTEM

Central Ontario District—A 300-kv-a. station using a bank of three new 100-kv-a. single-phase transformers was placed in service at Cataraqui to supply power to the surrounding rural district. A single-phase, 100-kv-a. station known as Consecon distributing station was installed to supply power to Wellington rural district. Quarries distributing station was dismantled and the 300-kv-a. transformer was transferred into system reserve and stored at Lehigh distributing station. A new 1,500-kv-a. station was placed in service at Trenton, using two 750-kv-a. three-phase units which had previously been in service on the system. A fourth 750-kv-a. three-phase transformer released from Howard Smith Paper Company's distributing station was installed in Belleville distributing station No. 1.

St. Lawrence District—The capacity of Brockville distributing station was increased by the installation of a new 1,500-kv-a. three-phase transformer replacing a 750-kv-a. unit. Two 750-kv-a. transformers which were in service at Cornwall Howard Smith Paper Company's distributing station were replaced by a 3,000-kv-a. and a 1,500-kv-a. three-phase unit. An extension was made to the building to accommodate the additional switching equipment necessary. A new station was installed at Cardinal, using a 300-kv-a. three-phase transformer from system reserve. A store-house and garage building were erected on the Commission's property at Morrisburg.

Metering equipment was installed in the temporary station of the Atlas Construction Company which supplies power for construction of Lower Lakes Terminal Elevator at Prescott.

Rideau District—A 750-kv-a. transformer was installed and placed in service at Perth distributing station, replacing a bank of three 200-kv-a. units. The latter were later installed at Carleton Place distributing station. The 300-kv-a. transformer in the temporary Rideau transformer station was replaced by a new 1,500-kv-a. unit thus increasing the tie capacity to the 26,000-volt lines.

Madawaska District—Synchronizing and relay equipment were installed at Galetta generating station. Telephone equipment was also installed at this station and the Paugan-Leaside telephone circuit looped in and connected to Chats Falls and Arnprior circuits.

A bank of three 150-kv-a. single-phase transformers was obtained from reserve and installed temporarily at Arnprior distributing station to augment the capacity. This bank has since been replaced by a bank of three 500-kv-a. units. Two 750-kv-a. three-phase transformers were purchased and installed at Chats Falls construction station to supply power for the construction work on the Chats Falls development.

THUNDER BAY SYSTEM

Generating Stations on the Nipigon River

The first generator at Alexander power development was placed in service on October 15, 1930. The second and third units should be in service before the end of the year. The transformers, switching equipment and all other necessary apparatus were purchased and the construction of the station nearly completed during the year.

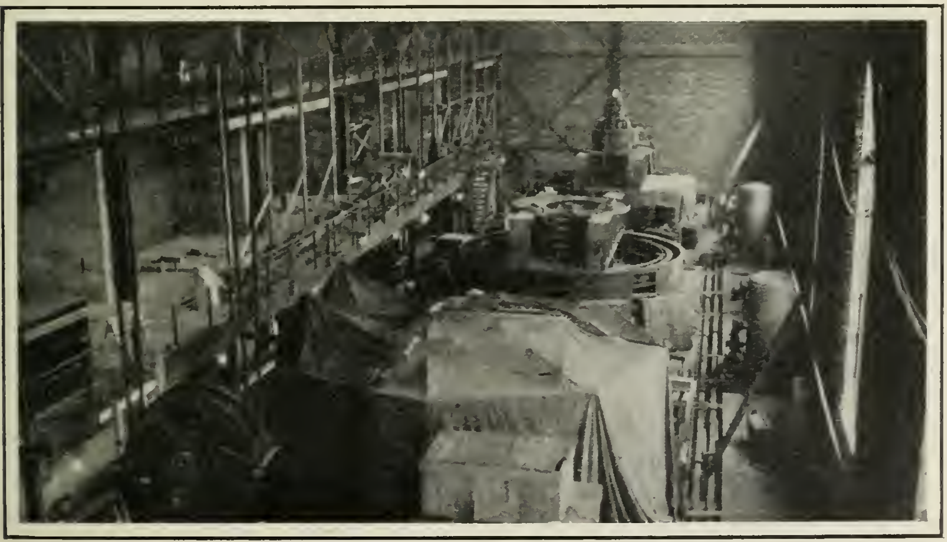
The station is situated about one and a half miles down the river from Cameron Falls generating station. There are three 15,000-kv-a., 13,200-volt, 60-cycle vertical shaft generators and three 15,000-kv-a., 12,000/110,000-volt,

ALEXANDER POWER DEVELOPMENT—NIPIGON RIVER

General view of generating station from downstream side
Capacity of plant when completed will be 54,000 horsepower

60-cycle outdoor type, self-cooled transformers with an overload capacity of 22,500-kv-a. The higher capacity is obtained by the use of a motor-driven blower which directs the air on to the external radiators, increasing the radiation of heat therefrom.

The entire 12,000-volt switching and bus connections consist of metal-clad equipment so constructed as to fit the various bays and form a ring bus system. The oil circuit-breakers are all electrically and mechanically interlocked with the disconnecting switches to guard against faulty operation.



ALEXANDER POWER DEVELOPMENT—NIPIGON RIVER

Generator room under construction, showing three units in process of installation, September, 1930

The 15,000-kv-a. transformers are located outdoors approximately 250-feet from the generating station and can be transported to the erection room in the generating station on a specially designed truck.

There are no 110,000-volt oil circuit-breakers or bus connections as the transformers are considered as part of the 110,000-volt transmission lines and are cleared by the 12,000-volt oil circuit-breakers or the 110,000-volt breakers at the receiving end of the lines.

The entire station is controlled electrically from a central desk in the control room. The control switches are all of the standard telephone type mounted on the top of the desk 72 by 30 inches.

This station will ultimately be controlled from Cameron Falls generating station by use of remote control equipment.

The relay protection consists chiefly of zone protective systems.

The station service power is supplied from a bank of three 250-kv-a., 12,000/575-volt transformers and an open delta bank of two 250-kv-a. transformers. The latter can be supplied from Cameron Falls generating station.

Transformer and Distributing Stations

The necessary switching equipment and supporting structures for a third 110,000-volt line have been purchased and installed at Port Arthur transformer station. The necessary 22,000-volt equipment was purchased and installed at Fort William transformer station to permit synchronizing the Kaministiquia Power Company's system with the Thunder Bay system.

NORTHERN ONTARIO SYSTEM

Nipissing District—Semi-automatic remote control equipment was installed and placed in service to effect the control of the 1,800-kv-a. generator at Elliott Chute generating station from the Bingham Chute generating station. The station service in the latter station was changed from single to three-phase. Lightning-arresters were installed on the Powassan feeder and a portable air-compressor installed. Lightning-arresters were also installed on 2,300-volt feeders and bus at Nipissing generating station.

Patricia District—The generating station at Ear falls was completed and placed in service in December, 1929.

Sudbury District—Lightning arresters were installed on the Burwash 2,300-volt feeder and station bus.

In co-operation with the Ontario Power Service Corporation engineering work was done relating to the design of its generating station and equipment on the Abitibi river at Abitibi Canyon.

POWER DEVELOPMENTS UNDER CONSTRUCTION

Chats Falls Development

Engineering work has been carried out for the Chats Falls Executive Board in the design and construction of a generating station on the Ottawa river near Fitzroy harbour known as Chats Falls development.

Eight 23,500-kv-a., 13,200-volt, 25-cycle, 125-r.p.m., vertical shaft generators have been purchased, four of which will be installed in 1931 and the remainder in 1932. Two 90-ton travelling cranes have also been purchased. The design of the station is well advanced and working drawings are being prepared.

Chats Falls Transformer Station

A step-up transformer station is being built near Chats Falls development to transform the generated voltage from 13,200 to 220,000-volts for transmission of power to Toronto. Thirteen 15,700-kv-a., 220,000/13,200-volt, 25-cycle, water-cooled, single-phase transformers have been purchased and the design of the station is well underway.

Beauharnois and Maclaren Developments

Engineering work was done in co-operation with the engineers of the Beauharnois Light, Heat and Power company and Maclaren Corporation relative to the design of their respective generating stations and equipment, and in accordance with the contracts for the supply of power to the Commission.

SECTION VI

TRANSMISSION, DISTRIBUTION AND RURAL SYSTEMS

TRANSMISSION SYSTEMS

Extensive additions have been made during the past year throughout the Commission's transmission systems. The most important of these are the completion of the second 220,000-volt circuit between Paugan Falls and Toronto and the construction of a 110,000-volt, tie line between the Niagara and Georgian Bay systems.

New lines were built and revisions were made to the lower voltage lines. This involved all systems, special attention being paid to lines in the Niagara Peninsula.

Work involved in the renewal of railway crossings, which have been operating for 15 years or more, has progressed favourably.

During 1930, the Northern Ontario system which includes the Patricia and Sudbury districts was formed, and the D.P. & T. system was purchased; this is being incorporated in the Niagara system.

In addition to the following synopsis a map showing all transmission lines of the Commission is included at the back of this report and relative data are tabulated in Appendix II.

NIAGARA SYSTEM

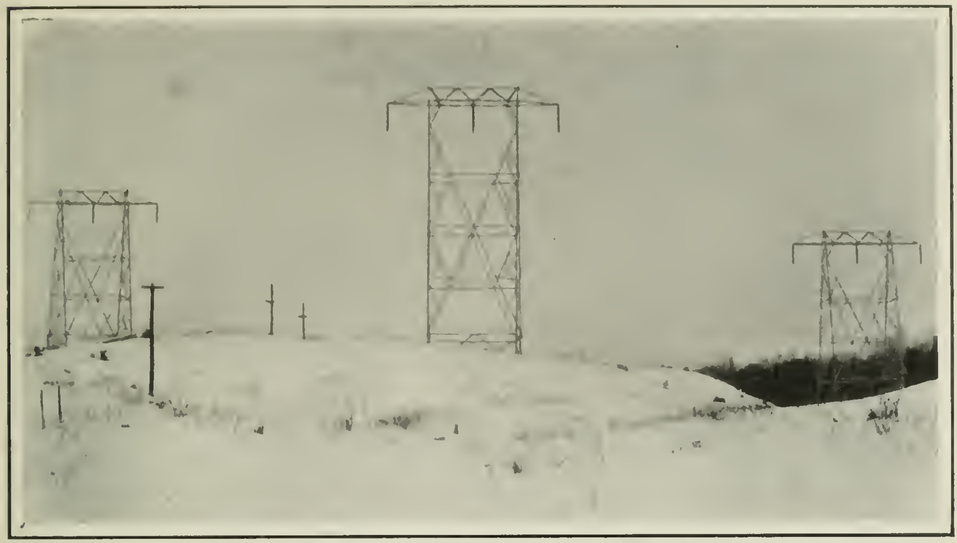
220,000-volt Lines

The second link between the Gatineau Power Company, in Quebec, and Leaside high-tension station has been made by the completion of the second 220,000-volt circuit. This line is now in operation and with the first circuit, provides sufficient capacity to deliver all the power required at present from the east, for the Niagara system.

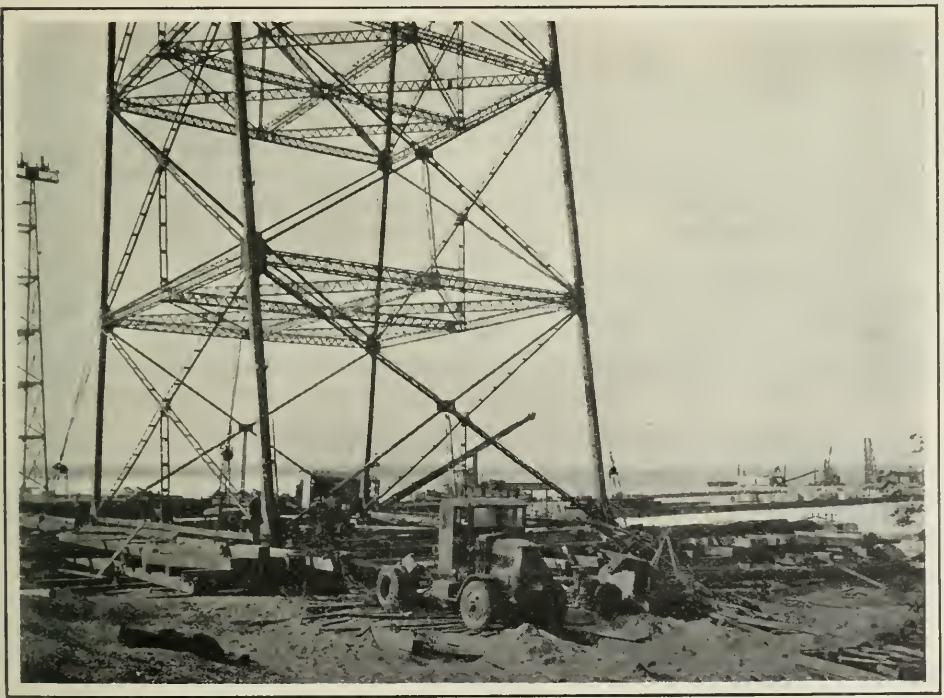
110,000-volt Lines

Industrial and transportation developments at Burlington Bay necessitated moving crossing structures, carrying circuits over the enlarged Hamilton harbour entrance canal.

Between a point on the Kitchener to Stratford 110,000-volt steel-tower line and Kitchener transformer station, a new circuit, 2.84 miles in length, was added



GATINEAU-TORONTO TRANSMISSION LINE—220,000 VOLTS
View shows three circuits on separate towers



MOVING 180-FEET HIGH TOWERS INTACT AT BURLINGTON CANAL CROSSING to existing towers. This forms part of the new tie line between the Niagara and Georgian Bay systems.

Insulation was added to 4.5 miles of double-circuit, 90,000-volt lines between Islington junction and Bridgman transformer station, in order to operate at 110,000 volts. Four 110,000-volt circuits are now available between these stations. The old 190,000 circular-mil, copper conductor between Wiltshire junction and Wiltshire transformer station was replaced by 477,000 circular-mil, steel-reinforced aluminum.

Rearrangement of the 110,000-volt lines at Guelph transformer station was made to accommodate extensive changes at the station. An additional tower was erected at Kitchener to provide better clearances.

Power at 60,000 volts was supplied to the new transformer station at Port Colborne, over steel-tower lines recently constructed, from connections to 60,000-volt lines at Montrose junction and Wabash junction. This necessitated the construction of a short section of single-circuit, wood-pole line through the village of Humberstone. Three double-circuit, steel towers were added to complete the circuits to Port Colborne transformer station. In all this construction in the Port Colborne district provision has been made for 110,000-volt operation.

Rearrangements were made with 90,000-volt circuits between Niagara Falls and Fonthill to utilize them as 60,000-volt circuits, thus giving alternative routes to Thorold and Port Colborne. Portions of the 60,000-volt lines were reinsulated with 110,000-volt, pin-type insulators.

26,400-volt Lines

Conductors between the junction and the L.E. & N. railway substation at Brantford were replaced, in order to increase conductivity. Circuits and switches, at Brantford municipal station, were revised to co-ordinate the present lines with a new municipal station installed near the L.E. & N. railway. A new single-circuit, wood-pole line—2.95 miles—was erected to supply power to a new customer near Burford.

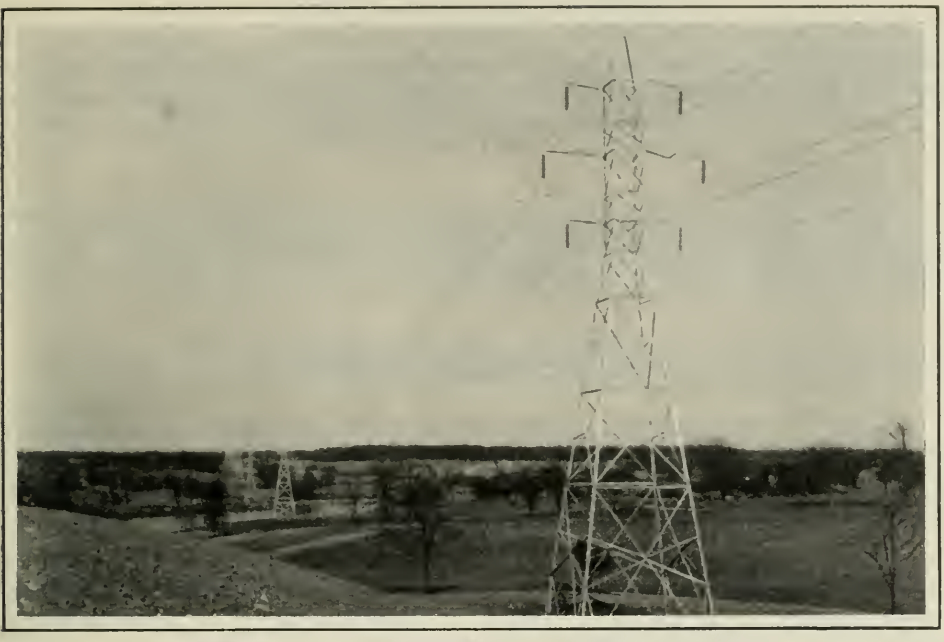
A single-circuit, wood-pole transmission line was built between Essex transformer station and Essex distributing station. The line is 14.30 miles long and includes air-break switches at Maidstone. Approximately 10 miles is on W.E. & L.S. electrical railway right-of-way and provision is made for trolley masts and signal circuits.

Between Cottam Junction and Leamington—3.65 miles—the existing pole line was rebuilt and at Cottam junction, switches were added to accommodate a short line to Cottam distributing station. Provision was also made on this line for co-ordination with the W.E. & L.S. electric railway wherever its right-of-way is used. Air-break switches were added at Ruthven junction.

Other Lines

A portion of one of the double-circuit 12,000-volt lines was removed from Stanley street, Niagara Falls, and rebuilt on H.E.P.C. right-of-way.

Extensive repairs were made to 13,200-volt lines in the town of Dundas, including the removal of some sections, the rerouting of others to shorten transmission distances, and the replacement of conductor where required.



QUEENSTON-ST. THOMAS 110,000-VOLT TRANSMISSION LINE
View taken near Caledonia, looking east across Grand River

Between Lucan and Exeter, a portion of the 13,200-volt line was moved on account of a revision to the provincial highway.

Between Guelph transformer station and Georgetown distributing station —31.58 miles—defective insulators were replaced and guys were added. Conductors were replaced between Guelph transformer station and the Ontario Agricultural College to provide better conductivity. A portion of the line in Acton was diverted on account of changes in the route of the Provincial highway. Rearrangements were also made to 13,200-volt lines in Guelph transformer station yard, made necessary by the erection of a new low-tension station.

Between Hespeler junction and Galt, the 13,200-volt double-circuit line was reinforced by the addition of guys and braces.

Between Kitchener transformer station and Waterloo municipal station —1.88 miles—a single-circuit, wood-pole line was constructed. This made possible the removal of one circuit from the old line and provides an alternative route which insures better service to Waterloo.

Construction of a double-circuit, 12,000-volt line—1.15 miles—was completed between Toronto Power Transformer station and Chippawa junction. This line replaces 3.57 miles of old line which was removed.

Two single-circuit, twin-pole lines each 0.28 miles long were built between Port Colborne transformer station and International Nickel Co. The conductors used were 1,033,500 circular-mil aluminum. This is the largest conductor strung on any of the Commission's transmission lines. The existing poles were dismantled and used in the construction of the twin-pole structures.

Due to the Welland Ship Canal construction at Port Colborne, old submarine and overhead 12,000-volt crossings were removed. Arrangements were made with the Government for crossings at a more suitable point. Transmission lines were removed between Thorold Junction and Ontario Paper Co. and between Lincoln junction and the south side of the Welland Canal.

D.P. & T. System

Since taking over this system, previously owned by the Dominion Power and Transmission Company, work has been progressing in bringing the transmission lines to the Commission's standards.

GEORGIAN BAY SYSTEM

From a new circuit provided near Kitchener, to Hanover frequency-changer station, a distance of 55.83 miles, a single-circuit twin-pole, 110,000-volt tie line was constructed. This line provides a tie between the Niagara and the Georgian Bay systems.

Between Big Chute generating station and Bala distributing station, 16.25 miles of single-circuit, twin-pole, line was built to accommodate an increased power demand in the vicinity of Bala. The line is designed for 38,000-volts but at present is operated at 22,000 volts. The line was routed to pass close to the location of a proposed development at Ragged Rapids.

Severn District

Ground cable clamps throughout the district and air-break switches located south of Barrie were replaced by more modern types.

The new Fergusonvale distributing station was placed in service by the completion of a short stretch of 22,000-volt line tapping the main line to Barrie.

Eugenia District

Construction of 12 miles of single-circuit, 22,000-volt line was completed between Tara distributing station and Southampton distributing station. Between Hanover frequency-changer station and Chesley distributing station the line was extended 13 miles north to intersect existing lines at Tara, and by the reinforcement of this latter circuit, easterly to intersect the Owen Sound line, a loop was established and provision made for alternative power supply to the Owen Sound area.

Replacement was made of the old No. 9 iron circuit between Kilsyth junction and Kilsyth distributing station—4.80 miles—by larger conductors. Obsolete switches were replaced by modern ones on lines in the Eugenia district and a new 3-pole entrance structure was completed at Hanover frequency-changer station.

Wasdells District

Old type air-break switches and ground cable clamps were replaced throughout this district.

Muskoka District

Old type air-break switches located at Utterson were replaced by swivel type.

EASTERN ONTARIO SYSTEM

An air-break switch was erected near Richmond on the 110,000-volt line, for the purpose of facilitating the location of line faults on this circuit which extends from Ottawa to Smiths Falls.

Central Ontario District

Air-break switches were erected on the 44,000-volt lines at Whitby junction and on either side of the elevator tap at Kingston. Disconnecting switches were removed from Belleville switching station and re-erected at Napanee.

Between Belleville switching station and the line to Belleville distributing station No. 1—1.30 miles of 44,000-volt, pin-type transmission line—was constructed.

St. Lawrence District

A short stretch of 44,000-volt line was built to supply power to a new customer near Prescott and to the new Government elevator.

Rideau District

The replacement of obsolete air-break switches on transmission lines has been continued during 1930 and includes those at Perth distributing station, Carleton Place Junction, Merrickville generating station and Smiths Falls tap.

A portion of the 26,400-volt, wood-pole line between Smiths Falls and Merrickville was relocated to conform to road improvements carried out by the County of Lanark.

Madawaska District

Between Calabogie generating station and Burnstown junction a 33,000-volt line was constructed. This ties with the line between Burnstown junction and Arnprior transformer station which was restrung with larger conductors. Between Galetta junction, on this line, and Chats Falls, a new 33,000-volt circuit was erected to supply power for construction at the Chats Falls generating station.

THUNDER BAY SYSTEM

A portion of the 110,000-volt, wood-pole line in the vicinity of Alexander power development was relocated due to higher water levels existing upon the completion of this development.

A second circuit was added to the 110,000-volt, steel-tower line between Cameron Falls and Port Arthur. From a point on this line to Alexander generating station two double-circuit, 110,000-volt, steel-tower lines were constructed and placed in operation.

NORTHERN ONTARIO SYSTEM

Nipissing District

Work in this district was confined to minor adjustments to lines and the replacement of some aluminum conductor with steel-reinforced aluminum in the vicinity of Callendar distributing station.

Patricia District

Progress is reported on the new high-voltage, steel-tower line between Sudbury and Hunta where connection will be made to the line to the Hudson's Bay Power Company.

Sudbury District

Three single-circuit lines, totalling 34 miles, were acquired by the Commission during the past year. These lines are used to supply power to Sudbury and to mining industries, in the district.

TELEPHONE LINES—ALL SYSTEMS

The communication systems of the Commission are becoming inadequate to carry the increase in traffic due to the operation of new systems and the centralization of management of numerous rural power districts throughout the Province. A start has been made to reinforce this service and is progressing.

Between Niagara Falls and Toronto, two existing circuits were rearranged to provide a phantom circuit.

Between Kitchener and Hanover, a new circuit has been constructed. This circuit, being in addition to those existing, provides an alternate path for communication between the Niagara and Georgian Bay systems.

New telephone circuits were provided on transmission lines built between Big Chutes generating station and Bala.

In the Madawaska system, a telephone circuit was provided on the new transmission lines between Calabogie and Burnstown, Arnprior and Chats Falls. One circuit was added between Burnstown and Arnprior. A switching point was installed at Galetta which makes possible communication from the Head Office in Toronto to all points on this system.

Telephone circuits in the Nipissing system were retransposed and wires were replaced in some sections to improve communication.

At other points in the various systems telephone circuits were rerouted or rearranged to provide better clearances and to give more efficient service.

DISTRIBUTION AND RURAL SYSTEMS

The work carried on by the Distribution section of the Electrical Engineering department covers the engineering for the construction of rural lines, distribution feeder lines, metering equipments, distribution systems for municipalities, etc. A tabular report of the work done during the past year may be found in Appendix III of this report.

SECTION VII

THE LABORATORIES

The work of the Department has continued to increase in volume, and the past year has been the most active in the history of the Laboratories. The reason for this activity is twofold. In the first place, there has been an increased demand upon the Laboratory by other departments for the inspection and testing of materials purchased under specification. In the second place, the number of problems in the operation of the system requiring special treatment has increased with the growth of the Commission, and the department is continually being called upon to assist in solving these problems. Other features worthy of note in the year's operation are: an increase in the number of requests received by municipalities for testing and research services, and the increase in tests of a special character for organizations outside the Commission.

A particularly interesting feature in the Laboratory's development during recent years has been the gradual formation of an inspection staff of highly trained men capable of conducting practically any kind of inspection of materials or equipment. It is believed that there are few organizations in America having such a staff and the evolution of this organization has been made possible by the adoption of a policy by the Commission of purchasing all equipment and materials under specification and of requiring inspection in all essential particulars of any undertaking. This has permitted the assembly of a staff of field inspectors and of the close co-ordination of field inspection with laboratory tests. The results of this policy are made evident continually in improved materials and equipment. The close co-operation which exists between engineering departments and the laboratory staff thus operates to the benefit of the Commission as a whole.

Every opportunity is taken to keep abreast with the latest developments in testing and inspection methods and in the application of new scientific discoveries to the problems of operation. To this end, contacts with research and standardizing organizations are being maintained, and the department is represented on committees of the Canadian Engineering Standards Association, National Research Council of Canada, International Electrotechnical Commission, American Institute of Electrical Engineers, American Society for Testing Materials, American Concrete Institute, Engineering Institute of Canada, and the National Research Council of the United States.

During the course of the year a movie film, illustrating the work of the Laboratory, was prepared and adapted for projection in 16 millimeter size. This film has been exhibited several times to illustrate lectures by various members of the Commission.

High Tension and General Electrical Laboratory

The activities of this section continue to follow along the lines indicated in previous reports, some branches of the work, however, showing a substantial increase in volume.

Shop Inspection

Routine shop inspection of transformers, rotating machinery, switching equipment, etc., together with the work of checking up schedules of production, has occupied almost the entire time of four members of the staff. The effect of such testing and inspection is shown in the quality of the equipment obtained also in avoidance of delays due to equipment not arriving on scheduled dates. Shop inspection of insulators is carried on throughout their course of manufacture and as the Commission spends a large amount of money each year in insulators and the service security requirements are high, this work has been shown to be well worth while.

Lightning Investigation

Apparatus for the detecting and measuring of lightning and similar electrical surges has been installed at various critical positions on lines and apparatus. Coupled with the studies of lightning has been the measurement of ground resistance which has been shown to be an important factor. Variations in ground resistance is also important in determining impedance-distance characteristics of lines for relay settings, and progress has been made in obtaining data along this line.

Radio Interference

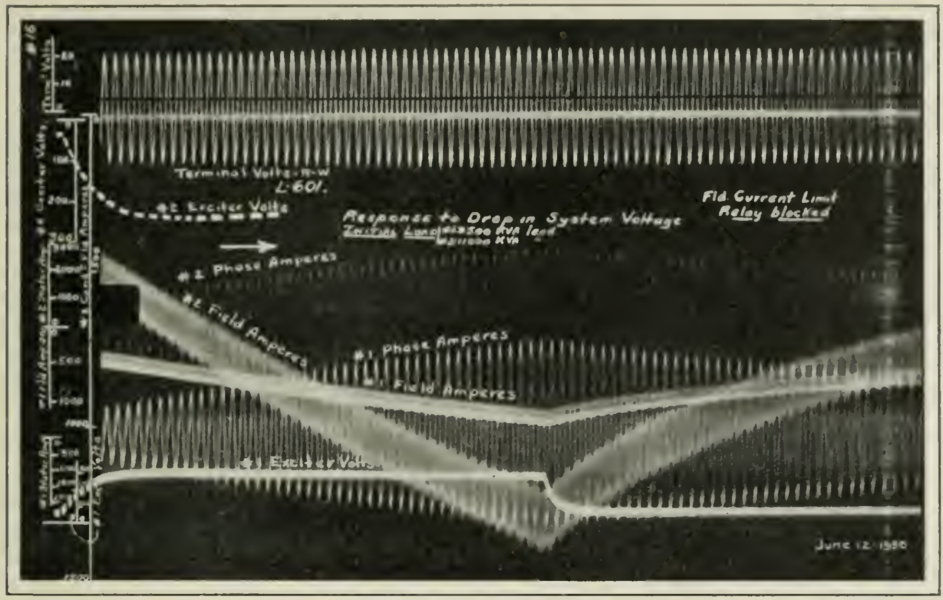
Close co-operation is maintained with the Radio Interference Branch of the Department of Marine and Fisheries technically, and several local problems, as well as some general investigations, have been studied during the year.

Routine Testing

The routine testing of rubber gloves and transformer oil has increased in volume. About 1,200 pairs of rubber gloves and 5,000 samples of oil were tested during the year, in addition to many other pieces of apparatus of various types.

Meter and Standards Laboratory

Maintenance of Laboratory standard meters for electrical measurements has been thorough, and during the year over one hundred calibrations were made on portable standard meters and others, chiefly by members of the Operating department for the use of the Commission. Precision methods of measurement and instruments available for such measurements have been used in special investigations carried out at various times.



OSCILLOGRAPH RECORD OF ELECTRICAL QUANTITIES DURING TRANSIENT CONDITIONS
As recorded on Automatic Oscillograph at Leaside Station Electrical Laboratory

Meter Repairs

During the past year, more than 1,300 watt-hour meters have been repaired or rebuilt, and in addition, repairs have been made to demand meters, rotating standards, meggers, bridges, voltmeters, ammeters, wattmeters and time switches.

The Instrument repair shop has also been active throughout the year supplementing the work of all sections of the Laboratories.

Illumination Laboratory

The main part of the work of this department continues from year to year with very little change except in details.

Lamp Testing

The inspection and testing of lamps by our resident inspector at the factory, the selection of samples for life test and the life testing of the sample groups at the Laboratory have been carried on as in previous years.

The Commission's lamp business has been steadily increasing in volume year after year with a corresponding increase in the number of lamps examined and tested.

It is gratifying to report that there has also been an upward trend in the quality of the lamps. As a result of this, a general increase in the efficiencies of all types of lamps has been made.

In the range of sizes covered by the inside-frosted lamps the demand for clear bulb lamps has decreased to such an extent as to indicate that they will soon be classed as "special." No advantage is to be gained in ordering clear bulb lamps in preference to those with inside-frosted (type A) bulbs while there are important advantages in the use of the latter.

Commercial Tests of Lighting Equipment

The types of lighting equipment tested during the year include show window reflectors, street lighting glassware and a new type of unit developed for lighting canals and waterways. In the tests of the last named some unexpected information was obtained which had an important influence on the design of the unit.

Many types and brands of lighting glassware are on the market regarding which no information is available as to their optical characteristics and efficiency. A cheaper brand of unit may be, and often is, so inefficient that, based upon the percentage of light delivered, the higher priced brands are the cheapest to use. Some users of lighting equipment have tests made and base their selections upon the results obtained.

Lighting Service

Increased use is being made of the lighting service offered to all users of power on the Hydro-Electric Systems. This service includes studies, including surveys of illumination intensities of existing lighting systems with recommendations for correcting unsatisfactory conditions; planning the lighting of new buildings and outdoor areas, and assistance in solving unusual lighting problems of various kinds.

Owing to the great variety in the nature of the work done by this section of the Laboratory, the completeness of equipment, and the entire freedom from commercial bias, the Hydro municipalities have at their disposal exceptional facilities upon which they may draw for the benefit of their own organizations or for their customers.

A considerably greater number of requests for service has been received during the past year than during any previous year. The Hydro municipalities are invited to make a more general use of this service.

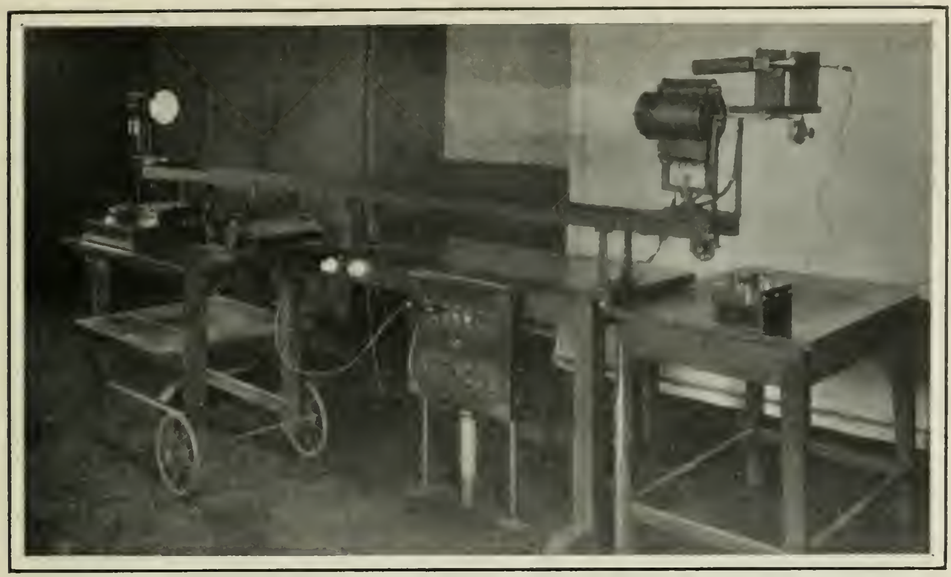
Automobile Lighting

Although there have been no tests of automobile headlights during the year, a considerable number of tests have been made closely related to the headlights of automobiles.

An apparatus designed to make possible the correct adjustment of automobile headlights by a garage attendant in the daytime was submitted for test. Similar kinds of apparatus had been tested previously but this last was the only one found to fulfil all the requirements for approval.

During the past year an Act was passed by the Legislature of Ontario requiring all motor trucks and trailers to carry on the rear end an approved reflecting device in addition to a tail light, so that in the event of a failure of the tail light to function the headlight beams of an overtaking motor vehicle would illuminate the reflecting device and thus warn the driver of the presence of the truck ahead.

The Laboratory was requested to conduct tests and to formulate specifications to which reflectors must comply before approval could be granted by the Department of Public Highways of Ontario.



TEST OF REFLECTING SIGNALS FOR THE REAR OF MOTOR VEHICLES
Illumination Laboratory

The test involves the measurement of reflected light under specified conditions.

A large number of reflecting devices have been tested, some of which have been approved by the Department of Public Highways.

Engineering Materials Laboratory

In common with the other sections of the Laboratory, this section has been very busy during the past year, and its principal achievement has been the volume of work handled with only moderate increases in the staff, rather than the accomplishment of any noteworthy investigations. This large volume of routine testing and inspection has made it necessary to curtail special research work as far as possible, and as a consequence no new researches have been undertaken, but the work already in hand has been continued as far as possible.

Inspection of Concrete Structures

The examination of concrete structures in service has been one of the investigations that has been actively continued, some fifty additional structures having been inspected during the year. A number of these were along the Gulf of Mexico and in the Lower Mississippi Valley, and others in the Central Mississippi Valley and along the Atlantic coast. It was found that concrete that did not have to resist the action of frost could be of very inferior quality, and yet give satisfactory service. However, along the sea coast, concrete which was reinforced had to be exceptionally good or spalling would occur due to rusting of the embedded steel.

The important conclusion from these investigations is that frost is the principal enemy of concrete in this climate. Knowing this future studies will be directed toward finding better methods of combating the effects of frost action.

A direct outgrowth of the foregoing studies has been the immediate application of the information and experience obtained in the maintenance of the Commission's structures. Engineers from the laboratory have advised on and kept in very close touch with all phases of the repair work which has been carried out during the past year at Frankford and Wasdells Falls powerhouses, the Eugenia dam, and the cooling pond at Niagara Falls. As a part of the same work, all of the concrete structures of the Commission are being kept under close observation, and recommendations for their repair are made when conditions are discovered that make such action advisable.

Special Investigations

During the year a number of special investigations and reports was made at the request of different departments, such as on the waterproofing of interior brick walls in powerhouses; the protection of brick work during construction in freezing weather; a comparison of the efficiency and operation of small portable concrete mixers; safe loads that can be applied to different types of steel insulator pins; the tensile strength of various brands of manilla rope; and the effect of different loadings on the standard wooden crossarms used on wood poles for high tension distribution.

Special Tests

The Commission's unique position as a pioneer in the successful application of scientific methods in the control of concrete during construction is being increasingly recognized. Frequent requests from other organizations are being received by the Laboratory to carry out the basic tests necessary with any group of materials in order to determine the best mixture which will give concrete of a desired quality. Seven such groups of tests have been made during the year, besides those for the work at Chats Falls and Niagara Falls.

Inspection of Materials

The work involved in the inspection of materials has increased greatly during the past year. The increase has been in volume rather than in variety and has not required any reorganization, but has necessitated an enlargement of the staff. To meet this situation, care has been taken to select men who are skilled in some particular line, and our organization is now unique insofar as inspection work involved in power development and distribution is concerned.

Most of the materials and equipment used by the Commission are now inspected fully, or in part, to see that they conform to the requirements of the service they have to meet. The cost of such work is usually comparatively small, and the practice has been found profitable, because in most cases it greatly reduces construction costs, eliminates delays that would otherwise be occasioned, and increases operating efficiency through the rejection of faulty materials and improper workmanship. Such work includes bolts which may have defective threads, copper wire of varying degrees of hardness, galvanized steel wire of different grades, and different thickness of coating, aluminum conductors, line hardware, transmission towers, structural steel and reinforcing steel. In addition to these materials, which are more or less standard, there are special materials and equipment such as turbines and generators which involve very complete inspection and testing of heavy castings and forgings as well as careful shop inspection to see that the proper fits and alignments are obtained.

FIELD LABORATORY AT CHATS FALLS FOR CONCRETE TESTING
Engineering Materials Laboratory

The value and experience of this department has been recognized by other power companies, who have made use of its facilities and personnel. The Laboratory has made special tests for them, and the staff has been used in a consulting capacity, and it has also been requested to inspect special equipment. Such work has been of value to the other companies and has given the Laboratory a wider experience.

Chemical Laboratory

The routine work of this section has increased greatly during the past year, a large part of the time of the staff being taken up with tests on hardware, paints, metals, oils, sand, stone, and other materials.

General

An interesting development of the past year has been the large increase in the number of requests for information from the different municipalities served by the Commission. These requests are principally for advice as to the protection and maintenance of plant and equipment. Such problems as the proper paint to use to meet unusual service conditions and the cause and remedy for the corrosion of piping systems are typical of the problems which the Laboratory has assisted the municipalities in solving.

Special Tests and Investigations

In addition to the routine work, a large number of special tests are made to solve specific problems met with in the operation and construction of the Commission's properties. Some of those carried out in the past year are:

An investigation of the protective properties of the zinc coatings used in the different standard brands of galvanized sheets with comparative tests on the steel or iron forming the sheet before it was galvanized.

Comparative chemical tests on portland cement as received from time to time, and from different mills.

Tests to determine the behaviour of the more common brands of emulsified asphalt with respect to their resistance to sunlight and their behaviour in cold weather.

Development of a suitable tree wound dressing.

A study of the commercial methods of reconditioning used transformer oil.

Research into the nature of the gases formed during the operation of oil circuit breakers, and the effect the oil would have on the character, amount, and nature of the gases formed.

A study of the failure of telephone cables by fatigue cracks.

Investigation of the cause of corrosion of lead cable in fibre conduits.

Tests to determine the possibility of using old transformer oil as fuel in commercial oil burners.

Earth Dams

When the construction of the hydraulic earth-filled dam for the Alexander Power development was first decided upon, the Laboratories were asked to look into the question of determining the suitability and character of the clay that would form the puddle core of the dam. Methods for determining the approximate fineness of the clay were devised, suitable for field exploration, and during the construction this year, accurate and complete analyses have been made of samples of the puddle core being placed. This is probably the first time that this class of work has been done in Canada.

Tests on River Water

The testing of weekly samples of water from different rivers of Ontario upon which the Commission operates hydro-electric plants, was continued during the year, and now data covering a complete year has been obtained from each stream. The information is being analyzed, and it is hoped that from this it will be possible to determine, with some accuracy, the tendency of these waters to corrode concrete. The Dominion Government has shown some interest in the data being obtained from these tests, and the information is being placed at its disposal.

Salt Spray Test

During the year a salt spray machine has been added to the equipment of the section. This machine is used for making comparative tests on metallic protective coatings, such as galvanizing, tinning, cadmium plating, etc., and already valuable information has been obtained through its use.

Photographic Branch

The increased activity of the Commission has been reflected in the volume of work that this section has been called upon to handle with the result that an additional photographer has had to be added to the staff.

The character of the work does not vary much from year to year, and, as in the past, has been principally made up of the printing and development of photographs taken by different members of the staff in connection with their various activities, the preparation of special photographs to illustrate reports, technical articles, and other documents, copying, lantern slides, etc. Progress pictures have been taken regularly of the construction work at the Leaside Transformer station, Queenston powerhouse, and the concreting of the Ontario Power Company's No. 3 Conduit. Photographs have also been received and prepared of the progress of the Alexander Power development.

A survey of the existing photographs in the Commission's file showed that no up-to-date pictures existed of many of the older structures on the different systems, and during the year this has been rectified. Pictures have been systematically taken of all of the structures on the Niagara system, Muskoka system, Thunder Bay system, and Nipissing system, and Eastern Ontario system.

A large projection printer with reducing attachment has been added to the equipment of the department, in order more economically to handle the enlargements that are being required, and also to facilitate the making of standard-sized prints from the many different sizes of negatives that result from members of the Commission's staff using their own cameras.

Blueprinting Department

The Blueprinting department likewise has been very busy during the past year, having handled over 95 per cent of the blueprints, ozalids and other classes of work required by the Commission, totalling approximately 37,000 square yards of finished prints.

Approvals Laboratory

There has been a general increase in the work of this section, as may be noticed from the following summary of approval applications received from November 1, 1929, to October 31, 1930. Of 655 applications, 181 applied to heaters, 176 to motor-operated devices, 113 to wiring devices, sockets and switches, 103 to radio devices and musical instruments, and 82 to lighting devices including portable electric lamps. This is an increase of 38 per cent over the previous year. It may also be noted that this is an increase of more than 100 per cent during the past three years. There has been a slight falling off in the number of applications received for listing of devices approved by Underwriters Laboratories, the total number of applications received during the past year being 168. This may be partly due to the fact that Canadian manufacturers have been able to replace the imported devices with those manufactured in Canada. Another reason for this decrease is the stiffening up of requirements by this Testing Laboratory on certain lines of electrical equipment which have been approved by Underwriters' Laboratories, but which we have discovered have fallen somewhat below the standards as required by the Commission. Two hundred and twenty-five final approval reports have been written during the year, and 329 white card summaries printed. Green card summaries covering devices listed as approved by Underwriters' Laboratories have been printed to the number of 199. Quite a percentage of this latter group has been printed merely as a change of record or due to a revision in the filing.

A further indication of the expansion of the Laboratory work may be seen in the fact that there are—as of October 31—322 approval reports in various stages of completion. One year ago this number was 273, an increase of about 17 per cent. With five testing engineers this means an average of 64 active jobs per engineer. In this connection, it is proposed to install a progress record system so that all new applications will be handled strictly in turn, the submittor being given an estimated date for the completion of the preliminary report.

Factory inspection work has increased, particularly that having to do with label service on portable electric lamps, for which a more frequent service is necessary. At the present time, there are more than 40 subscribers to the portable lamp label service in the United States, 24 of them being in the New York district. Our schedule, at the present time, includes quarterly inspection of each of these label service users in the United States, and more frequent inspection to those points which are more easily reached by the inspector from the Toronto office. The number of labels sold during the year has been considerably less than that during the previous year. This is no doubt due to the general business depression.

The inspection of electrical equipment offered for sale throughout the Province has received more attention during this past year than formerly and special steps have been taken to rigidly enforce the regulations. The engineer entrusted with this work has visited the Electrical Inspection departments in most of the cities and towns in the southern part of the Province.

Draft specifications for radio-operated appliances and for electric signs have been prepared, the former one being sent to the Canadian Engineering Standards Association to be issued as the first draft of the specifications under that Association. This work of preparing these draft specifications requires much care and thought on the part of the engineers who are acquainted with the details of the apparatus.

ELECTRICAL INSPECTION DIVISION

In spite of the general business depression which has prevailed throughout the Province, the Electrical Inspection department has concluded a very successful year. The volume of business was second only to the best year in the history of the Department, namely, 1929. This condition is noteworthy in view of the fact that the number of building contracts let between November 1, 1929, and October 31, 1930, was ten per cent less than in the previous fiscal period. The value of the building contracts let was also $55,473,000 or 33 per cent less than in 1929.

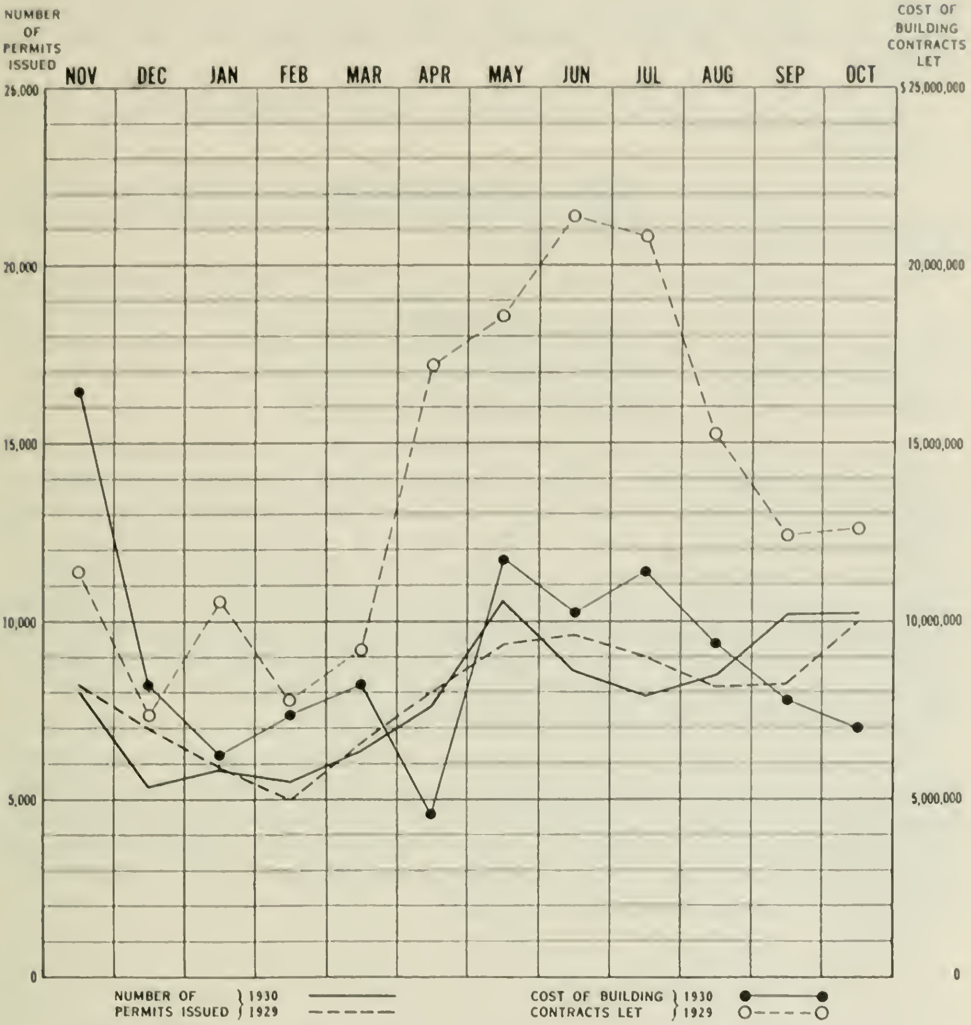


CHART ILLUSTRATING OPERATIONS OF THE ELECTRICAL INSPECTION DEPARTMENT

A graph illustrating the amount of money expended in 1929 and 1930 on the building construction from which a great part of the work of the Department is derived is shown. This graph also shows the number of permits issued by the Department in 1929 and 1930 in comparison with the cost of building construction for the same years.

The decrease in urban and suburban construction was offset to some extent by the greatly increased activities in the rural sections of the Province.

A brief summary of the year's operations shows that 95,229 permits were issued, a decrease of 647, or less than one per cent from 1929. The total number of inspections made was 186,891, this being a decrease of 2,799 or 1.5 per cent.

Automobile mileage in 1930 amounted to 431,940 miles as compared with 405,873 in 1929; an increase of 26,067 miles or 6 per cent. This additional mileage was due to the greater number of rural inspections made in 1930 than in 1929.

Nine fires were reported as having been caused by defective electric wiring or apparatus.

In several instances of infractions of the Rules and Regulations there was no alternative but to take Court proceedings with the result that in practically every instance fines were imposed.

It is with regret that we record the deaths of five persons as having been caused by electrocution. Two of these deaths were strictly accidental, but the other three were the result of carelessness and could have been avoided. In these cases, three men, electricians, were working on live apparatus which should, and could have been made dead.

Along with the regular routine of inspecting new wiring installations and equipment, the Department makes inspections of the older and more obsolete type, which from general wear and tear have come to the stage where they constitute a life and fire hazard. The wiring in 4,815 such buildings and premises was overhauled at an approximate cost of $500,000 during the past year. Included in these figures is practically every church in the Province by reason of the fact that insurance companies give a substantial reduction in insurance rates if the electrical installation is found to comply with the requirements, and the assured can produce the certificate of approval from the Inspection Department covering the church's wiring and equipment.

In January, 1930, the second edition of the Canadian Electrical Code, Part I, was adopted by the Commission as the ninth edition of its Rules and Regulations and became effective throughout the Province on June 1, 1930. This edition supersedes the eighth edition which has been completely revised and re-arranged, in order to take advantage of the experience gained and keep in line with recent developments in the field.

SECTION VIII

ELECTRIC RAILWAYS

ESSEX DISTRICT RAILWAYS

Way and Structures

Track construction, which was commenced in 1929 on Sandwich street in the town of Sandwich and on London street in the city of Windsor, was completed during the year.

The double track construction on Sandwich street in Sandwich, between Rosedale avenue and Detroit street, referred to in last year's report, was completed and was placed in operation on the 18th of December, 1929. This double track, which is the standard paved monolithic type, is located in the centre of the widened street and replaces the former open double track located on the south side of the street on private right-of-way. Tubular steel poles were also erected for the joint use of the municipality and the railway. This work was covered by agreement between the municipality and the Commission and in accordance with this agreement the municipality has purchased the private right-of-way, formerly occupied by the railway trackage, and has paid the cost of pavement on the track allowance.

On London street in Windsor the double track reconstruction programme referred to in last year's report was completed. The portion of track reconstructed this year extends from Janette street to Ouellette avenue. That portion of the work between Janette street and Victoria avenue is of the standard paved monolithic type of construction, while the remainder from Victoria avenue to Ouellette avenue consists of 100 lb. A.R.A., A. rail on oak ties and crushed stone ballast, with concrete paving base and brick pavement. The former portion was placed in operation on September 12, while the reconstruction of the latter portion was performed under traffic.

At the request of the municipalities of the city of East Windsor and Sandwich East township, the single open track on Tecumseh road, between George street and Pillette road, was moved from the north side of the road to the open track reservation in the centre of the road. This work was done in connection with the paving programme of these municipalities and at their expense.

A physical connection between the Windsor, Essex and Lake Shore Railway single track on Howard avenue and the double track of this system on Erie street in Windsor was constructed to permit of the interchange of traffic between the two systems.

At the intersection of Ottawa street and Monmouth road in Walkerville an additional curve was installed in the special work, making a complete double track Wye installation at this point.

During the year the Sandwich street highway bridge over the Canadian National Railway in Walkerville was reconstructed by the town of Walkerville. This work necessitated the reconstruction of the single street-car track which also traverses this bridge and its approaches. Also involved was the construction of a temporary track and bridge to permit of the continued operation of the Tecumseh division traffic. All bridgework was performed by the town of Walkerville and trackwork by the railway forces. Operation over the temporary facilities thus provided extended from May 27 to August 30, when operation over the new bridge was commenced. The new track is located, as formerly, on the north side of the approaches and bridge proper, the construction on the west approach and across the bridge being of the open type and on the east approach of standard monolithic type. This project is governed by Board of Railway Commissioners for Canada Order No. 42618, dated 14th May, 1929, and amending Order No. 44201, dated 17th January, 1930, the subdivision of costs being as follows:—"Canadian National Railways 55 per cent not exceeding a lump sum of $60,000; town of Walkerville 20 per cent; city of Windsor 15 per cent and Hydro-Electric Railways 10 per cent." The amending order also provides that, in the event of 55 per cent of the total cost of the bridge being in excess of the $60,000 apportioned to the Canadian National Railways, such excess to be borne by the town of Walkerville. Maintenance costs are subdivided on the basis of the above mentioned percentages.

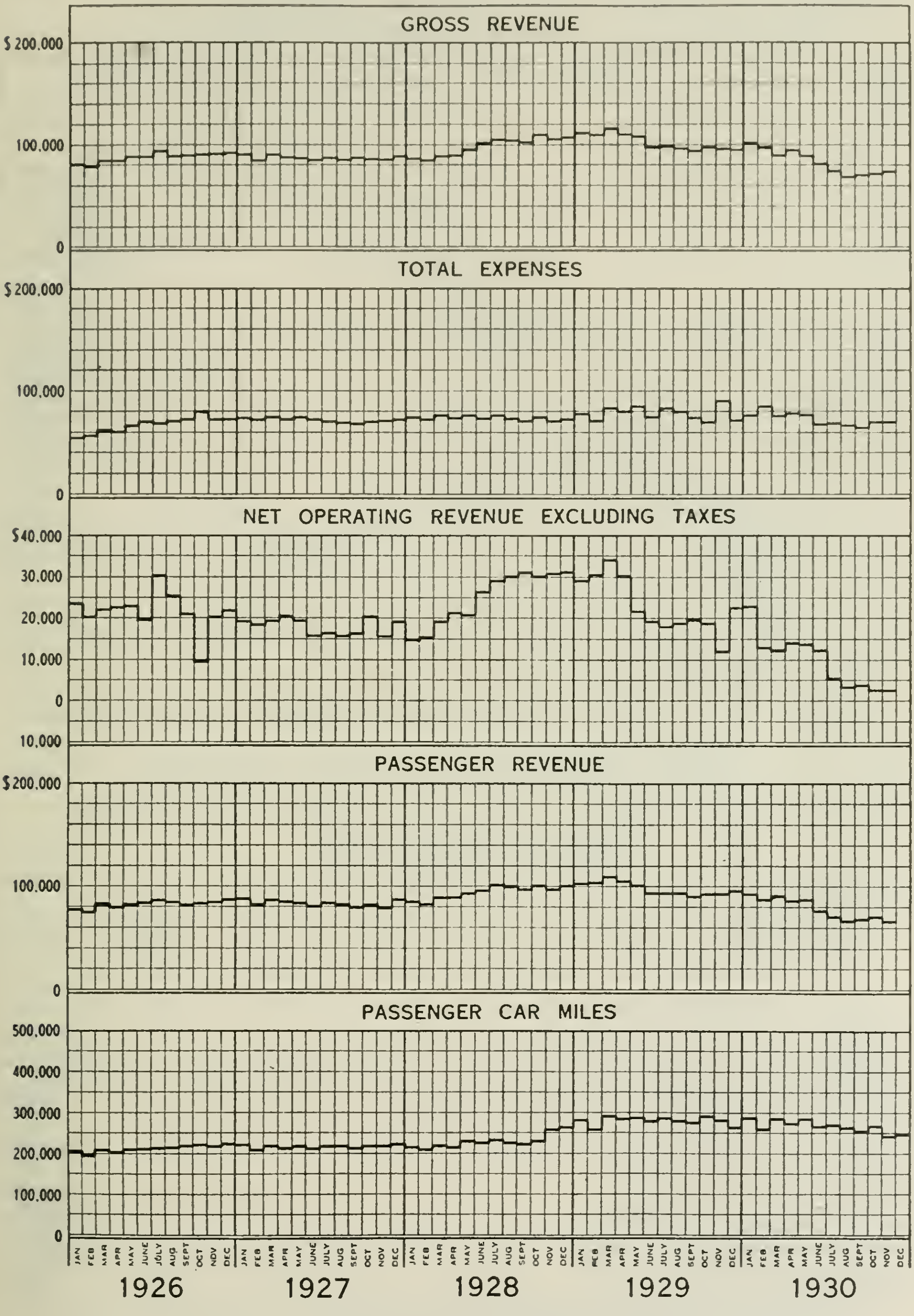
Construction of the Wyandotte street highway extension, referred to in the 1924 annual report, was commenced by the city of East Windsor in October. This extension will connect Wyandotte street in Walkerville with Ottawa street in East Windsor and involves the construction of subways under the Pere Marquette Railway in Walkerville and the Canadian National Railways in East Windsor. It is proposed to construct a double track street-car line along this extension which is approximately 4,000 feet in length. The route of the extension as finally adopted, will permit the under-crossing of the Canadian National Railway by both the new extension and the existing Drouillard road, by means of the same subway. Negotiations have been carried on throughout the year and the Board of Railway Commissioners' Orders have been issued authorizing the work in East Windsor, but to date, division of cost has only been made of the Drouillard road portion of the subway, in which portion the street railway is not interested. It is expected that similar negotiations on the part of the town of Walkerville will result in the authorization by the Board of the under-crossing of the Pere Marquette Railway and that this work can be commenced in a short time.

Operation

The gross revenue for the year 1930 amounted to $1,027,759, as compared with $1,241,042 in 1929, a decrease of $213,283. The operating expenses amounted to $876,160 as compared with $929,689 in 1929, a decrease of $53,529.

The net operating revenue for the year 1930 was $151,599, as compared with a net of $305,962 in 1929, a decrease of $154,363. The interest and taxes for the year 1930 amounted to $279,090, as compared with $266,881 for the year 1929, an increase in fixed charges of $12,209.

ESSEX DISTRICT RAILWAYS—OPERATING STATISTICS



The decline in passenger business noted in the latter part of 1929 continued throughout the year 1930. The number of revenue passengers carried during the last four months falling to the lowest point in six years.

There was also a further reduction in freight tonnage from 12,540 tons in the year 1929 to 5,748 tons in the year 1930. The shipments to the export docks ceased entirely after May, 1930, and all freight shipments on the Tecumseh division were stopped by the removal of the Ford interchange with the C.N.R., on account of the construction of a subway under the C.N.R. tracks.

The net result of the year's operations shows a deficit of $127,491 after paying interest and taxes, but without taking care of depreciation, as compared with a surplus of $44,471 in 1929. Passenger revenue decreased $198,936 and freight revenue $10,539 as compared with 1929. Gross revenue decreased $213,283.

In conjunction with the Detroit street railway, a bus service over the Ambassador bridge was started in November, 1929, and at the start promised to do well, but due to industrial conditions in the Border Cities and in Detroit, the traffic fell off considerably towards the end of the year. The opening of the Detroit-Windsor tunnel in November, 1930, will, it is expected, reduce business to such an extent that the continued operation of this service will not be warranted. This service had total earnings amounting to $50,678 with operating expenses of $58,280, resulting in a deficit of $7,602.

The W. E. & L. S. Railway will shortly operate a local service on Howard avenue and the Howard avenue bus line will be discontinued. This will effect a saving of approximately $25,000 a year to the Essex district.

The financial statements respecting the Railway are given in Section IX of this report. The accompanying chart indicates the growth of the Railway for the past five years.

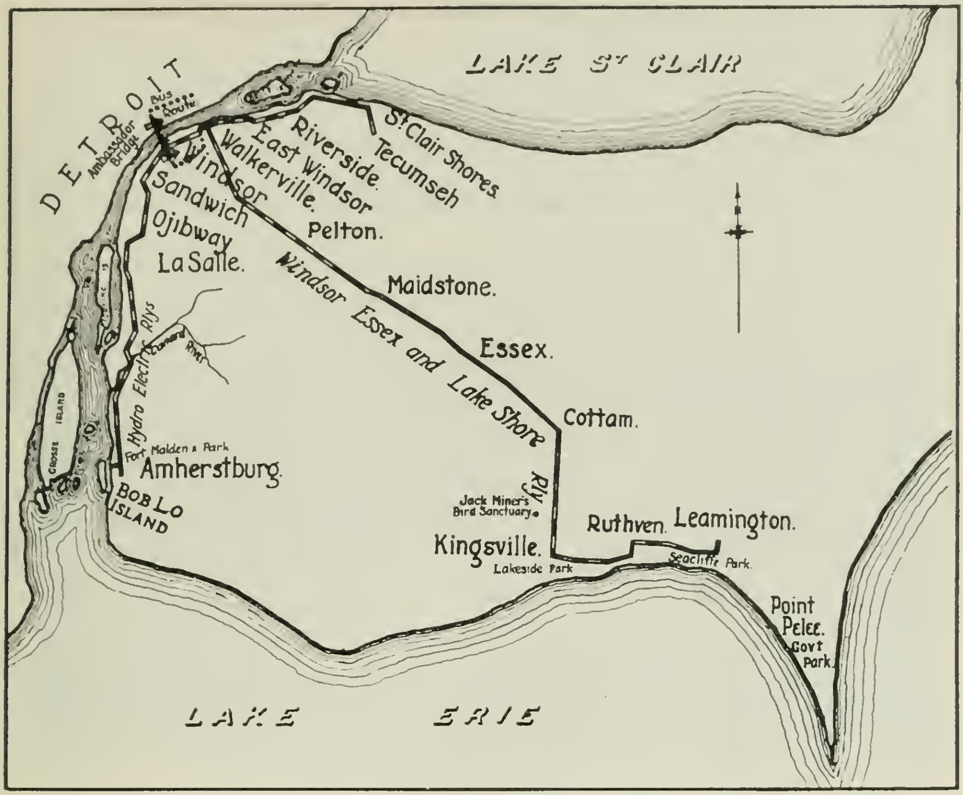
The mileage operated by the various types of cars and buses during the year is as follows: double truck, air brakes, two-man cars 146,965 car-miles; interurban cars 495,738 car-miles; single-truck safety cars 597,221 car-miles; double-truck, safety cars 1,565,517 car-miles; express cars 12,940 car-miles; buses, 449,394 bus-miles; service cars, 28,827 car-miles; total 3,296,602 car- and bus-miles.

ESSEX DISTRICT RAILWAY

Operating Statistics, 1930

Route-miles:		
City trolley	24.29	
City bus	18.50	
Amherstburg interurban	13.54	
Tecumseh interurban	6.10	
Total route miles		62.43
Passenger and freight car-miles operated		3,261,956
Passenger and freight car-hours operated		362,277
Passenger carried		16,592,772
Percentage of transfer passengers to revenue passengers		18.64
Passenger cars operated		66
Passenger buses operated		13
Passengers carried per route-mile		225,728
Passengers carried per car-mile		5.107
Passengers carried per car-hour		45.801
Average mileage per car operated		42,357
Average mileage per bus operated		34,568
Average passengers per car operated		236,486
Average passengers per bus operated		75,741
Freight tonnage carried		5,748

Accidents 656 of which 514 were automobile accidents.
Accidents per 100,000 car-miles 19.26.



WINDSOR, ESSEX & LAKE SHORE RAILWAY

WINDSOR, ESSEX & LAKE SHORE RAILWAY

On September 8, 1929, the operation of the Windsor, Essex and Lake Shore Rapid Railway was taken over by the Commission under agreement with the Windsor, Essex and Lake Shore Electric Railway Association, the latter body, representing a number of municipalities traversed by the railway, having purchased the line from the original owners, the Windsor, Essex and Lake Shore Rapid Railway Company, at a cost of $296,000.

This railway consists of 36.12 miles of standard gauge singe-track extending from the intersection of Pitt street and Ouelette avenue in downtown Windsor to Leamington, with numerous industrial sidings along the route. In Windsor, Essex, Cottam, Kingsville and Leamington the track is situated in the centre of the street, while on the balance of the line it is constructed on a narrow strip of private right-of-way of varying widths, adjacent to the highway.

Way and Structures

Rehabilitation of the entire system has proceeded throughout the year and is now practically completed.

Approximately 55,000 cedar ties and 7,000 pairs of angle bars have been installed. The open track throughout has been lifted and lined. Special work has been repaired or replaced, culverts have been repaired and the entire line has been bonded.

The single paved track through the town of Essex has been reconstructed, for a distance of approximately 4,000 feet. This work was done to conform with the municipality's street widening scheme. The work involved the installation of new 100 lb. A.R.A., A. rail throughout, on the existing oak ties and concrete foundation, and the laying of new paving base and brick pavement. All rail joints are thermit welded.

A siding has been constructed on Howard avenue, Windsor, near Tecumseh road to provide a passing point for a local service to be inaugurated on Howard avenue. The siding is of paved construction, with 80 lb. A.S.C.E. rail on oak ties and stone ballast, concrete paving base and brick pavement. The equilateral turnouts at each end provide for the accommodation of both steam and electric railway equipment.

The widening of Arthur street by the city of Windsor occasioned the reconstruction of 700 feet of paved single track on the new centre line of the street. Construction is of 80 lb. A.S.C.E. rail on cedar ties with tie plates, crushed stone, ballast, concrete paving, base and brick pavement, rail joints being thermit welded. The municipality contributed $9,000 towards the cost of this work.

A new spur has been constructed to serve the new freight shed in Leamington.

A new spur, approximately half-a-mile in length, has been constructed from the main line near Leamington to Seacliff park. This spur is located on a 66-foot, private right-of-way and is of the open type of construction with used 80 lb. A.S.C.E. rail, on cedar ties and stone ballast.

Additional freight shed accommodation has been constructed both at Kingsville and at Leamington and arrangements made with the local Fruit Growers' Associations whereby the latter will pay the carrying charges on the cost of construction.

The overhead system was reconstructed throughout the entire length of the line. Poles belonging to the Power department of the Commission were utilized for a distance of approximately ten miles north of Essex and three miles north of Kingsville. On the remainder of the line, pole replacements were made where necessary. The catenary construction consists of 7/16 inch steel strand messenger with 4/0 grooved copper contact wire supported on existing mast arms. The new feeder consists of a 636,000 c.m. steel reinforced aluminum cable extending from Erie street in Windsor to Ruthven, and a 954,000 c.m. cable from Ruthven to Leamington.

The telephone system has been rehabilitated throughout, iron wire, where it existed, being replaced by copper.

Equipment

Four new motor car and one trail car bodies were secured from the Ottawa Car Manufacturing Company. These car bodies are all steel, of modern stream line design with extra large windows and are the first cars of this type to be used in Canada. Particular attention has been paid to appearance, finish and comfort. Special spring construction is provided in the seats and the trail car is equipped as a parlour car with lounge type settees in each of the two end

WINDSOR, ESSEX & LAKE SHORE RAILWAY AT PELTON

compartments. Trucks purchased from the National Steel Car Company of Hamilton are also of a modern design to provide easy riding qualities. The electric motive equipment consists of four used 100 h.p. Westinghouse motors geared for somewhat over 65 m.p.h. on level track. Multiple unit control is used with automatic draw bars so that two or more cars can be operated in train.

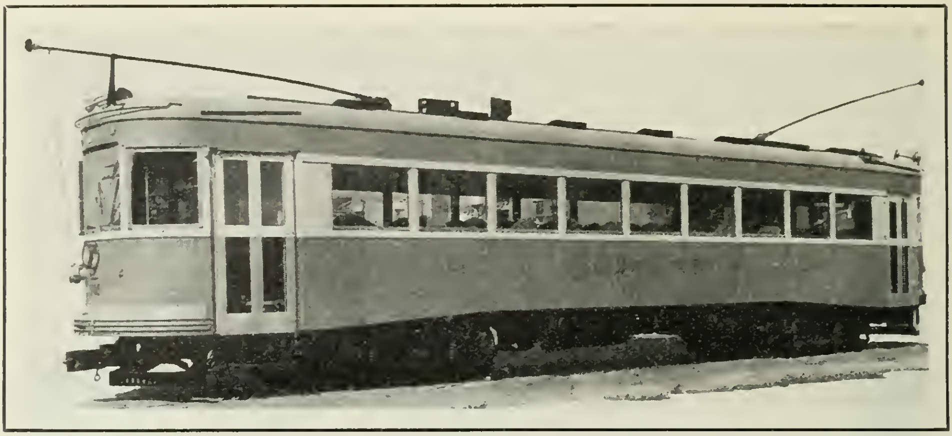
In providing for the two locomotives necessary it was found possible to obtain five used modern trucks and motors in first-class condition at very attractive prices. One set of trucks was installed under a used locomotive body secured from the Canadian National Electric Railway and the other under one of the express cars taken over with the Railway and remodelled.

Power

The original programme contemplated the installation of three manually operated substations located at Maidstone, Cottam and Ruthven. Subsequently it was found possible to rearrange the rehabilitation programme to permit the purchase and installation of automatic equipment, which will result in more economical operation. Each station consists of one 500 kw. rotary convertor with high-tension transformers and automatic switching equipment.

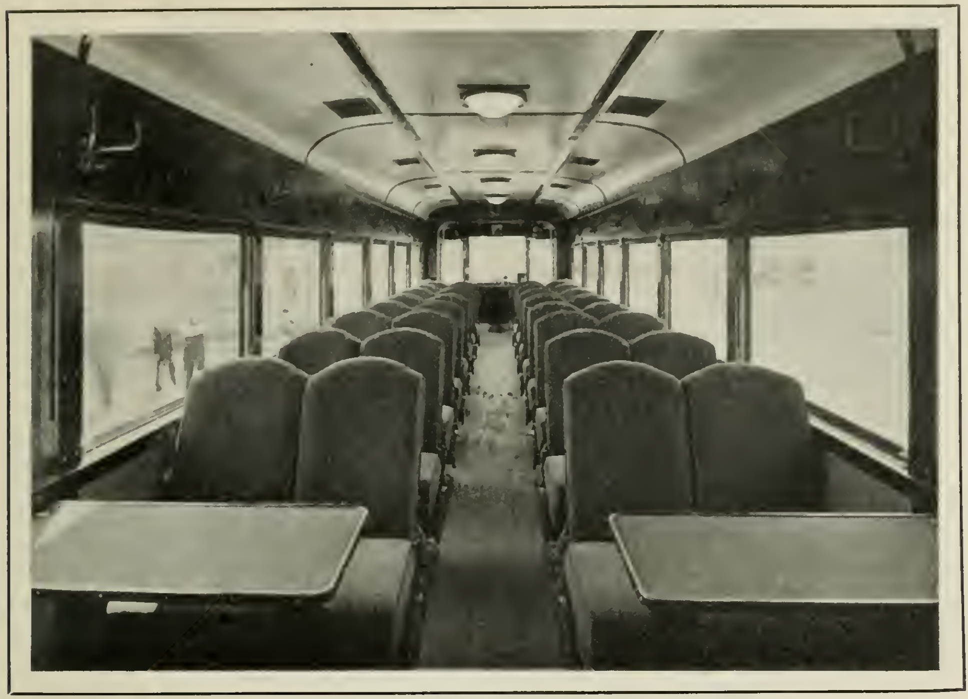
Operation

In considering the results of the first year of operation of the W. E. & L. S. Railway, consideration should be given to the fact that it was a period of rehabilitation in its entirety. Between September 8, 1929 and August 15, 1930, many conditions existed which prevented securing an increase of business.

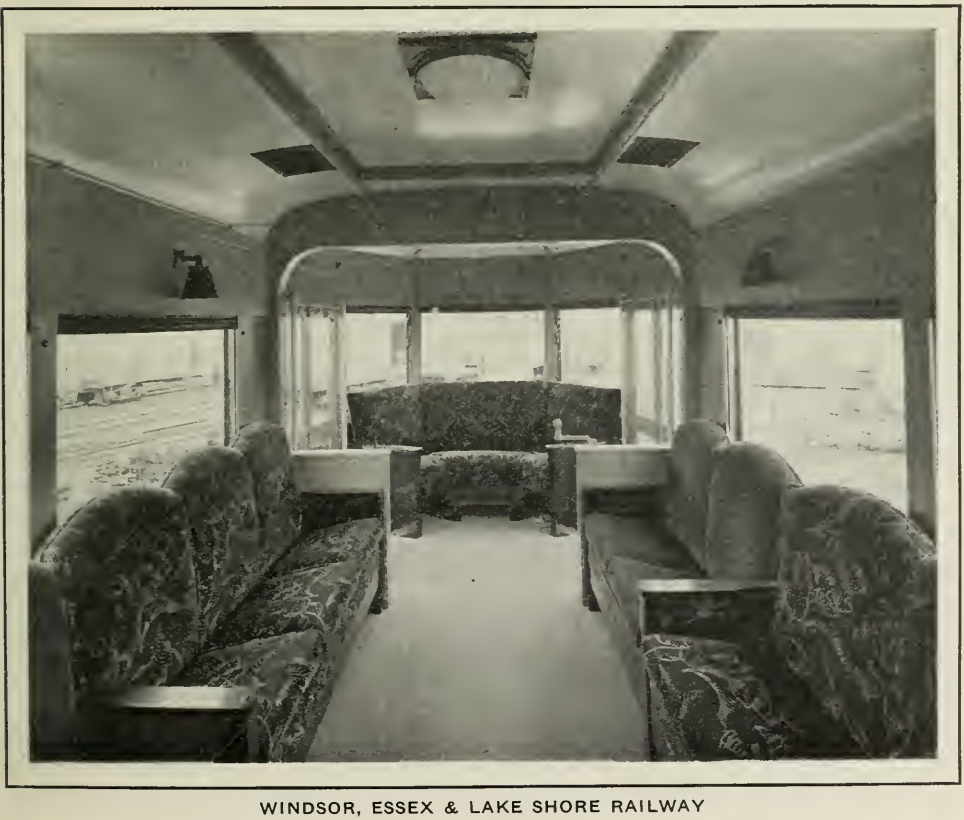


WINDSOR, ESSEX & LAKE SHORE RAILWAY
Passenger car

WINDSOR, ESSEX & LAKE SHORE RAILWAY
Interior of observation car



WINDSOR, ESSEX & LAKE SHORE RAILWAY
Interior of passenger car



WINDSOR, ESSEX & LAKE SHORE RAILWAY
Interior of observation car

Statement of Revenue and Operating Expenses

	Year ending Dec. 31, 1926	Nov. 1, 1929 to Oct. 31, 1930	Sept. 8, 1929 to Oct. 31, 1930
Gross revenue	$245,448	$161,455.41	$185,724.01
Expenses			
Ways and structures	$29,763	$27,928.70	$32,524.93
Equipment	34,837	25,752.47	31,226.20
Power	58,541	45,320.37	53,526.32
Transportation	60,841	54,284.86	61,886.38
General miscellaneous	51,383	41,122.66	47,942.80
Total expenses	$235,365	$194,409.06	$227,106.63

During the major portion of the year passengers had to transfer from the cars at the Windsor end into a bus and then again transfer from the bus to the cars operating with A.C. power. Furthermore the restricted facilities that could be offered for the handling of freight and express also prevented any material increase being shown, in fact, the railway was fortunate to be able to hold what business there was left.

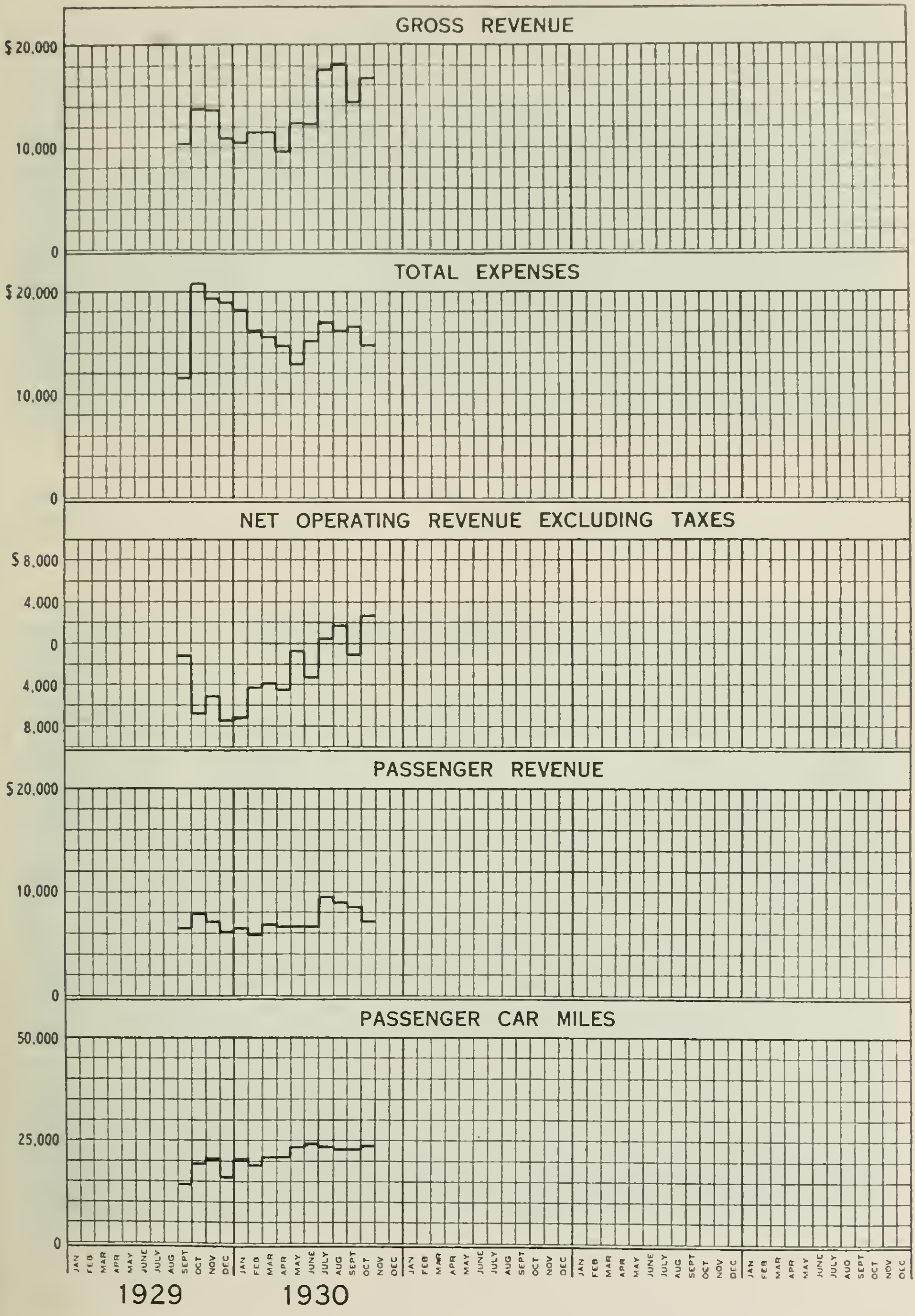
It was not possible to cater to the summer traffic or excursion business on account of lack of facilities. The equipment was also of such a nature that it was not conducive to attracting business. The cost of operation was considerably increased on account of having to hold the old equipment and power stations together until the 600-volt power was available.

During the year the entire purchase cost of the buses was wiped off and charged to operation, amounting to practically $4,000. The rental for the temporary transformers from the Hydro-Electric Power Commission, amounting to $2,600 was also charged against operation, as was also the changing of the intake pipes into the Kingsville power station, which accounted for another $3,000.

The industrial depression brought about a condition which has retarded and will continue to retard to some extent the growth of revenue. All of the savings that can be effected in the operating costs, do not up to the present time show in the report for the fiscal year ending October 31, 1930. Many of them were placed in effect after that date and there are a few more changes yet which will tend further to reduce operating costs. The estimate for the cost of operation was approximately $175,000. It is believed that it will be possible to reach this point at an early date. The passenger revenue until October 31 remained practically stationery. This should increase during the ensuing year. The revenue from freight operation showed decided increases towards the latter part of the year and the outlook seems better for the coming year, notwithstanding the industrial depression. For instance, the Heinz Company at Leamington has not shipped any of its product for export. The canning factories at Kingsville and Essex have shipped only one car in the last six months. These conditions are the result of the unsettled trade conditions.

Arrangements were completed with the Canadian National Express whereby the rate paid to the W. E. & L. S. Ry. was increased 100 per cent which will mean approximately $6,000 to $8,000 a year. In December the local passenger

WINDSOR, ESSEX AND LAKE SHORE RAILWAY OPERATING STATISTICS



business on Howard avenue will be transferred to the W. E. & L. S., this traffic at present being handled by buses operated by the S. W. & A. The cost of this operation, with 15-minute service, will be in the neighborhood of $2,600 to $2,700 a month and the revenue about $3,100. This revenue a year ago ran up as high as $6,500 a month, the total revenue for the year 1929 being approximately $64,000. The total operating cost for the year should be approximately $32,000, so that even during the present depression a substantial profit should be earned which will be greatly increased with a return to normal conditions. This amount of business can be handled on the present service without any difficulty.

As will be seen by the charts, the road when taken over was not paying its operating expenses by approximately $7,000 a month. This has been changed, so that the earnings for July, August, September and October show a total surplus of operating expenses of approximately $5,200. There will be two or three of the winter months, December, January, February and March, and possibly April, that will probably fail to produce sufficient revenue to pay the operating expenses, as these are always the light months in the year, and at present are affected seriously by the prevailing industrial depression, but with any return towards normal conditions, the balance of the year should offset these poorer months and provide something towards the capital charges.

While the revenues at the present time are not as great as were anticipated on account of conditions, it is believed, after a careful study, that the Railway will be able to produce sufficient revenue to take care of its requirements.

GUELPH DISTRICT RAILWAYS

Way and Structures

The Suffolk route, referred to in the 1929 report, consisting of approximately one mile of single track, has been abandoned and the car service replaced by buses which commenced operation on August 14.

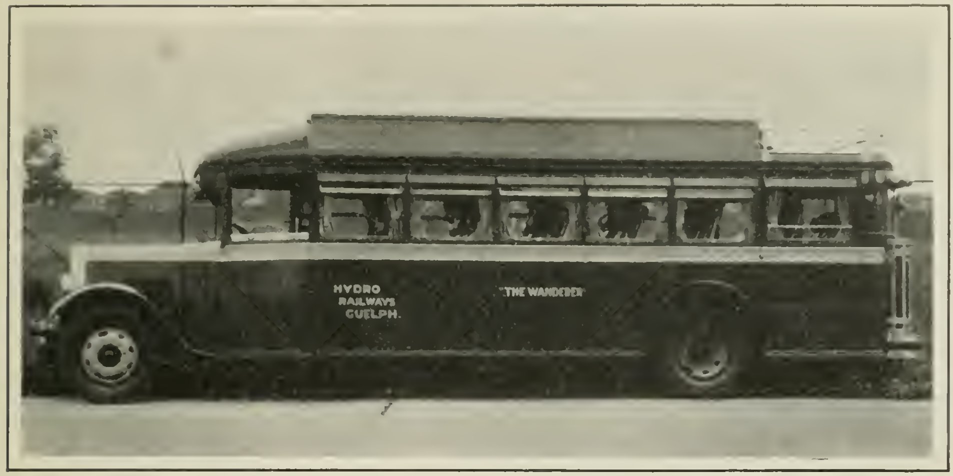
A new spur track one quarter of a mile in length with passing siding has been constructed on the grounds of the Ontario Agricultural College, to serve the new heating plant installed at the college. All freight traffic to and from the college will be routed over this track which was built at the expense of the Provincial Department of Public Works. Construction is of the open type with 80 lb. A.S.C.E. relay rail on cedar ties and stone ballast.

The track on the system has been maintained to a satisfactory standard and the overhead system has been overhauled throughout.

Equipment

The abandonment of the Suffolk car route released one passenger car from service and this car has been transferred to Windsor for service on the Essex District Railways.

Three new buses were purchased. Two of these are 25 passenger city-type vehicles while the third is a 29-passenger de luxe bus for chartered business. Of the two smaller buses, one is used to replace the street car service on the Suffolk route and the other to supplement both the city services and the chartered bus service inaugurated with the purchase of the de luxe bus.



GUELPH DISTRICT RAILWAYS—INTERURBAN COACH
Parlor coach seating 29 passengers

GUELPH DISTRICT RAILWAYS—CITY BUS

The chasses of the smaller buses were purchased from the General Motors Products Limited and the bodies built by the Commercial Motors Bodies and Carriages Company of Guelph, while the larger bus was furnished entirely by the General Motors Products Limited.

Operation

The operating revenue for the Guelph District Railways for 1930 was $86,278 as compared with $88,145 in 1929. The total operating expenses for the year 1930 were $81,091 as compared with $80,132 in 1929. Taxes for the year 1930 amounted to $515 as compared with $1,348 in 1929. The net operating revenue for the year 1930 was $5,187 as compared with $8,014 in 1929. The interest and debenture payments were $26,900 as compared with $26,215 in 1929. The renewal set aside was $10,701 as compared with $10,252 in 1929. The deficit for the year 1930 amounted to $32,929, as compared with $29,802 in 1929.

Included in the above deficit is $7,307 which has been set aside each year for amortizing the original value of the railway line previous to the transfer of this line to the Hydro-Electric Power Commission; and also an interest charge of $4,393 and a renewal account of $10,701.

The freight business for the year 1930 increased slightly over that for the year 1929, partly due to building operations at the Ontario Agricultural College, but the number of passengers carried was smaller due to the reduced industrial activity. Earnings from special bus trips amounted to $1,000 in the four months the new buses were in operation.

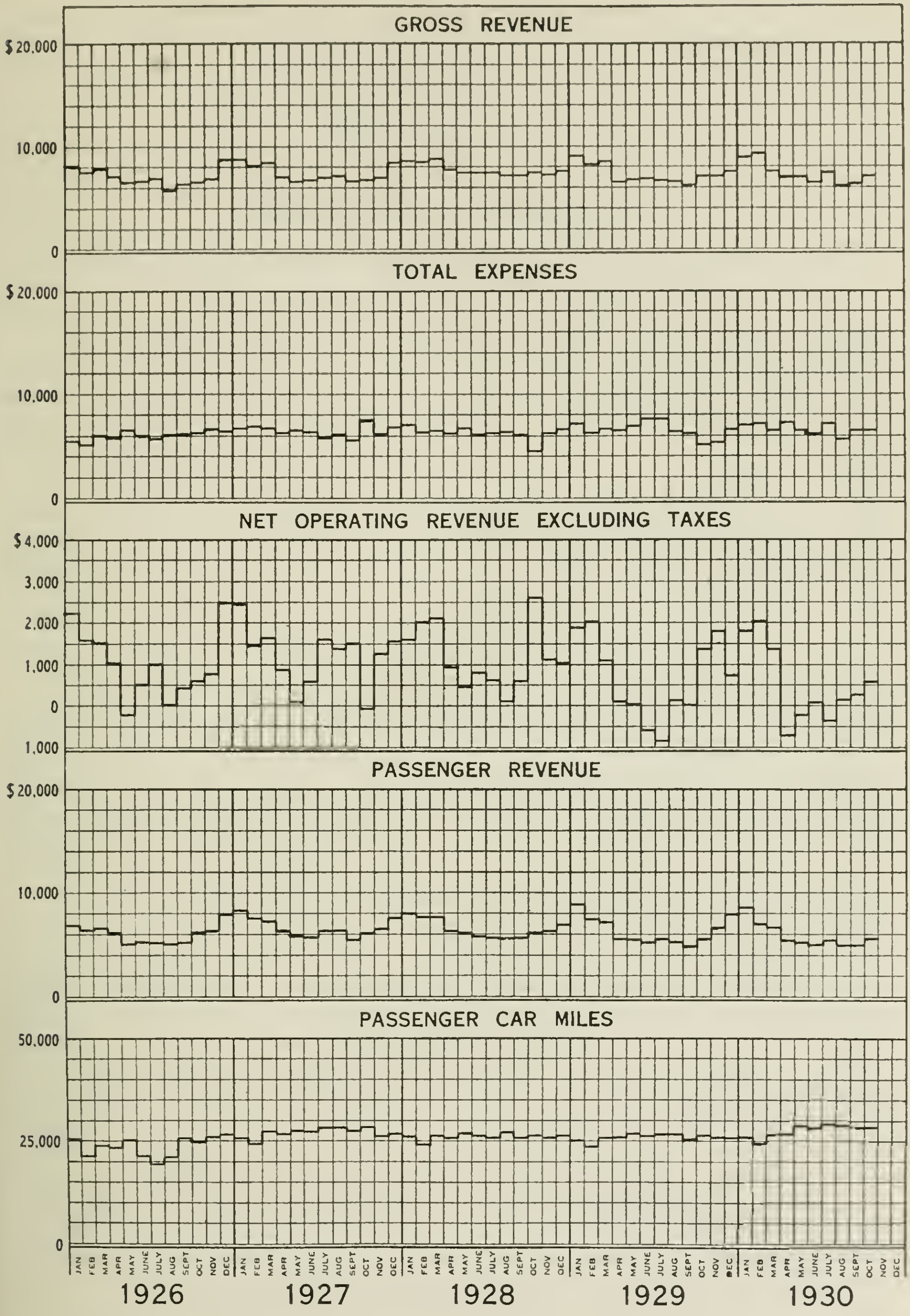
GUELPH DISTRICT RAILWAYS

Operating Statistics, 1930

Route-miles:		
Trolley	6.41	
Bus	2.65	
Total route-miles		9.06
Track-miles trolley		8.50
Passenger cars operated		8
Buses operated		4
Passenger car-miles operated		267,057
Bus-miles operated		51,308
Freight locomotive-miles		9,780
Passenger car-hours operated		33,042
Bus-hours operated		7,913
Revenue pasengers carried		1,328,781
Transfer passengers carried		268,076
Free passengers carried		2,049
Total passengers carried		1,598,906
Percentage of transfer passengers to revenue passengers		18.17
Freight motor-cars operated		1
Freight motor-hours operated		2,302
Total passenger freight and service car-miles operated		338,574

Accidents—twenty-four of which nineteen were due to automobiles.
Accidents per 100,000 car-miles, 1927—8.24; 1928—4.25; 1929—12.3; 1930—7.2.

GUELPH DISTRICT RAILWAYS—OPERATING STATISTICS



SECTION IX

FINANCIAL STATEMENTS

Relating to Properties Operated by The Hydro-Electric Power Commission on Behalf of Municipalities

The following explanatory statement is submitted with a view to affording a satisfactory understanding of the manner in which the various operations of the Hydro-Electric Power Commission of Ontario are conducted and financed and thus contributing to the interest of those concerned either directly or indirectly with the work of the Commission.

The "Hydro" electrical undertaking of Ontario is an organization of a large number of partner municipalities co-ordinated into groups or systems for securing common action with respect to power supplies, through the medium of the Hydro-Electric Power Commission which under the Power Commission Act functions as their trustee. The undertaking as a whole, embracing all the operations from the provision of the power down to its final delivery to the ultimate consumer, involves two distinct phases of operations.

The FIRST phase of operations is the provision of the electrical power—either by generation or purchase—and its transformation, transmission and delivery in *wholesale* quantities to individual municipal utilities, to large industrial consumers, and to rural power districts. This phase of the operations is performed by the Hydro-Electric Power Commission of Ontario as trustee for the municipalities acting collectively in groups or "systems," and the financial statements relating to these collective activities of the municipalities are presented in this section of the Annual Report.

The SECOND phase of operations is the *retail* distribution of electrical energy to consumers within the limits of the areas served by the various municipal utilities and rural power districts. In the case of rural power districts, which usually embrace within their confines portions of more than one township, the Hydro-Electric Power Commission not only provides the power at wholesale, but also—on behalf of the respective individual townships—attends to all physical and financial operations connected with the distribution of energy at retail to the consumers within the rural power districts.* The financial statements relating to the rural power districts are also presented in this section of the report. In the case of cities, towns, many villages and certain thickly populated areas of townships, retail distribution of electrical energy provided by the Commission is in general conducted by individual local municipal utility commissions under the general supervision of the Hydro-Electric Power Commission of Ontario. The balance sheets, operating reports and statistical data relating to such individual electrical utilities are presented in Section X of this report.

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*For further information respecting rural power districts consult latter portion of Section III in this Report.

. Having the foregoing distinctions respecting wholesale and retail electrical service in mind, the following brief notes will assist to an understanding of the economic structure and of the general plan of administration of the undertaking, and will make clearer the financial tables herein presented. The basic principle governing the financial operations of the undertaking is that electrical service be given by the Commission to the municipalities and by the municipalities to the ultimate consumers at cost.

The charges for power supplied by the Commission to the various municipalities vary with the amounts of power used, the distances from the sources of supply and other factors. The entire capital cost of the various power developments and transmission systems is annually allocated to the connected municipalities and other wholesale power consumers, according to the relative use made of the lines and equipment. Each municipality assumes responsibility for that portion of property employed in providing and transmitting power for its use, together with such expenses—including the cost of purchased power if any—as are incidental to the provision and delivery of its wholesale power. The entire annual expenses—including appropriations for reserves,—incurred by the Commission in the supply of power at wholesale are thus paid out of revenues collected in respect of such power, through the medium of power bills rendered by the Commission. The municipalities are billed at an estimated interim rate each month during the year and credit or debit adjustment is made at the end of the year,* when the Commission's books are closed and the actual cost payable by each municipality for power received has been determined.

Included in the municipality's remittance to the Commission for the wholesale cost of power—besides such direct expenses as those for operation and maintenance of plant, for administration, and for interest on capital—are sums required to build up reserves for sinking fund, for renewals, and for obsolescence and contingencies. The first-mentioned reserve is for the purpose of liquidating the capital liabilities; consequently, as capital obligations are discharged the plant will progressively be freed from interest expense. The other reserves are, respectively, being created to provide funds for the replacing or rebuilding of plant as it wears out; to enable the undertaking to replace existing equipment with improved equipment as it becomes available through advances in science and invention, and to meet unforeseen expenses which from time to time may arise.

The ultimate source of all revenue to meet costs—whether for the larger operations of the Hydro-Electric Power Commission or for the smaller local operations of the municipalities—is, of course, the consumer. Out of the total revenue collected by each municipal utility from its consumers for service supplied, only an amount sufficient to pay the wholesale cost of power supplied by the Commission as outlined above is remitted to the Commission; the balance of municipal electrical revenue is retained to pay for the expense incurred by the local utility in distributing the electrical energy to its consumers.

The results obtained by the annual adjustments of the Commission's capital investment, operating expenses and fixed charges, as they affect individual municipalities are shown in the tables for the respective systems. For the purpose of financial statement, the various systems are treated as separate units and for each of them similar statements and details are presented. Many of the pages which follow, therefore, simply repeat for each system data similar to those which are presented for the first system dealt with in each division of the report, namely, the Niagara system. In order, therefore, to possess a ready grasp of all the figures presented in this and other similar reports of the Commission, all that is necessary is to have a true understanding of the financial procedure followed in connection with one system and with one municipal "Hydro" utility.

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*The financial year for the Commission ends on October 31. The financial year for the municipal electric utilities, however, ends on December 31, and the municipal accounts are made up to this date, and so recorded in Section X.

The accounts of the Hydro-Electric Power Commission of Ontario are verified by auditors specially appointed by the Provincial Government. The accounts of the "Hydro" utility of each individual municipality are prepared according to approved and standard practice and are also duly audited.

Tabular Data

The first tabular statement given in Section IX is a general balance sheet exhibiting the assets and liabilities of the undertaking and relates to the properties constructed or otherwise acquired and being operated by the Commission as trustee for the municipalities of the various systems.

The general balance sheet is followed by groups of statements relating in turn to each system of the Commission. These statements, for each system, are similar in character and include:—

Operating Account for the year, showing, for the system as a whole, the various items of operating expense and fixed charges entering into the cost of power as defined by the Power Commission Act, and the revenues collected by the Commission from the partner municipalities and other consumers.

Cost of Power statement, which shows the apportionment to each municipality or rural power district of the items of cost summarized in the Operating Account, as well as the apportionment of the capital expenditures listed in the balance sheet and the amount of power taken by each municipality. It should be appreciated that the cost of power given in this table is the wholesale cost,—that is, the cost which the Commission receives for the power delivered from the main transformer stations serving the local utility or rural power district. In the case of rural power districts, the costs of power for the respective districts appear also in the "Rural Operating" statement, immediately following, as "Cost of power delivered"; in the case of municipal electrical utilities not directly administered by the Commission, the respective costs of power appear in Statement "B" of Section X as Power purchased."*

Rural Operating statement, which shows for each rural power district the various items of cost, and the revenues received, in connection with the distribution of electrical energy to consumers.

Credit or Charge statement, which shows the adjustments made in order to bring the amounts paid by each municipal electric utility to the actual cost of service to that municipality. These credits and charges are taken up and given effect to in the municipal accounts of "Hydro" utilities before the operating records of each year are closed.

Reserve for Renewals, which shows the provisions made for, the expenditures from, and the balances to the credit of, this fund.

Reserve for Obsolescence and Contingencies, which gives similar information with respect to this reserve.

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*Consult footnote on previous page.

Sinking Fund statement, which gives the accumulated total of the amounts paid by each municipality and rural power district as part of the cost of power together with its proportionate share of other sinking funds.

Sinking Fund Reserve, which summarizes the provisions made with respect to this fund.

Section IX also contains operating accounts of the various electric railways operated by the Commission, and a summary of the "Appropriations, Advances and Capital Expenditures" made during the year.

All municipal "Hydro" utilities have current expenses to meet similar to the expenses of the Commission and have adopted the same financial procedure with respect to their operations. In other words, concurrently with the creation of funds to liquidate their debt to the Commission and to provide the necessary reserve to protect generating, transforming, and transmission systems, the municipalities are taking similar action with respect to their local "Hydro" utility systems.

The balance sheets, operating reports and statistical data appearing in Section X, under the heading of "Municipal Accounts," relate to the operation of local distribution systems by individual municipalities which have contracted with the Commission for their supply of electrical energy. To this section there is an explanatory introduction to which the reader is specially referred.

To illustrate further the foregoing explanatory comments, there is presented herewith a typical operating statement of an Ontario municipal electrical utility, covering its financial operations, both as a partner in a system of the Hydro-Electric Power Commission, and as administrator of its own local distribution system.

CHATHAM "HYDRO" UTILITY

OPERATING STATEMENT FOR THE YEAR 1930

REVENUE

Revenue from Chatham "Hydro" customers for year	$236,017.22

EXPENSES

Representative illustration of expenses incurred by the Hydro-Electric Power Commission on behalf of a municipality in connection with the supplying of its electrical energy. These data really show—as determined by annual adjustment—what it costs the Commission to supply the municipality with its power. See "Cost of Power" statement, page 158, for the city of Chatham, as follows:

Cost (proportionate share) of operation and maintenance expense of Niagara generating plants, transformer stations and transmission lines together with administrative expenses	$44,279.18
Interest on Chatham's proportionate share of capital investment in generating plants, transformer stations and transmission lines	46,024.91
Sinking Fund (proportionate share) provided in respect of generating plants, transformer stations and transmission lines	10,188.59

Renewal reserve (proportionate share) provided in respect of generating plants, transformer stations and transmission lines	$9,204.81	
Obsolescence and contingencies reserve (proportionate share) provided in respect of generating plants, transformer stations and transmission lines—a reserve created to meet any unforeseen contingency or obsolescence expense	16,214.49	
		$125,911.98

Expenses incurred by a municipality through its utility commission in connection with the sale of electrical energy to consumers. Consult the section dealing with the Municipal Accounts:

Operation, maintenance and administrative expenses	$66,672.16	
Interest and fixed charges on debenture debt	22,388.00	
Depreciation charge	13,668.00	
		$102,728.16
Total expenses charged against revenue from customers of the Chatham system		$228,640.14
Net surplus for the year		$7,377.08

The municipality of Chatham, situated at the western end of the Niagara system, 194 miles distant from the source of power, Niagara Falls, Ontario, was connected to the system in February, 1915. This Hydro utility complied with every monetary obligation imposed upon it by the Power Commission Act. With the close of the fifteenth year of operation, this utility's total assets are $840,719.33, liabilities, $295,045.49, and reserves and surplus, $545,673.84, as shown in the municipalities' balance sheets, in Section X, Statement "A."

By reference to this municipality's balance sheet, it will be noted that the Chatham "Hydro" utility has created a sinking fund equity amounting to $160,923.97 in the Hydro-Electric Power Commission System.

By reference to Statement "D" in Section X of this report it will be seen that under the low rate schedules prevailing throughout the Province, the rates in force in Chatham have resulted in *average costs** to the various classes of service as follows: Domestic service (with an average monthly consumption per consumer of 100 kilowatt-hours) 1.7 cents per kilowatt-hour; commercial service 1.6 cents per kilowatt-hour. The actual *rates in force* are presented in Statement "E" and particulars of street lighting service are given in Statement "C."

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*If proper differentiation be made by those undertaking research, between the very different entities of rates on the one hand and the derived quantities of average costs or revenues on the other, a great deal of confusion and misrepresentation will be avoided. Consult introduction to Statement "D" of Section X.

HYDRO-ELECTRIC POWER
Detailed Statements of Assets
POWER

ASSETS

Niagara System:			
Generating plants:			
Queenston-Chippawa development		$76,847,989 74	
Ontario Power development, including water rights		22,067,034 12	
Toronto Power development, including water rights		11,327,094 02	
Transmission lines:			
Right-of-way		8,100,641 52	
Steel-tower and wood-pole lines		22,173,550 18	
Transformer stations		30,781,455 66	
		$171,297,765 24	
Distribution lines:			
Rural power districts	$4,839,295 08		
Rural lines	35,527 44		
		4,874,822 52	
			$176,172,587 76
Undertakings and Companies acquired as at January 1, 1930, from Dominion Power and Transmission Company, Limited, under purchase agreement dated April 2, 1930, and supplemental agreement dated August 14, 1930 (see balance sheet on page 152)			21,489,434 83
Chats Falls Power development:			
Expenditures to date			2,137,230.18
Thunder Bay System:			
Nipigon generating plants		$14,901,532.67	
Transmission lines		1,899,320.70	
Transformer stations		844,942.94	
			17,645,796.31
Georgian Bay System:			
Generating plants		$3,350,503.84	
Transmission lines		2,516,712.44	
Transformer stations		1,034,050.27	
Distribution lines:		$6,901,266.55	
Rural power districts	$457,361.39		
Rural lines	2,807.43		
Local distribution system	57,999.13		
		518,167.95	
		$7,419,434.50	
Walkerton and Saugeen properties acquired as at March 31, 1930		521,232.46	
			7,940,666.96
Eastern Ontario System:			
Generating plants, including water rights		$10,123,804.16	
Transmission lines		3,873,463.68	
Transformer stations		2,417,900.48	
		$16,415,168.32	
Rural power districts	$1,070,638.33		
Local distribution systems	2,541,771.47		
		3,612,409.80	
		$20,027,578.12	
Surveys and engineering *re* power sites:			
Ottawa river	$154,731.47		
St. Lawrence river	734,873.31		
		889,604.78	
Sudbury District:			20,917,182.90
Properties, buildings, plant, equipment and water rights on Wahnapitae river		$2,661,567.04	
Transmission line, Abitibi-Sudbury		144,939.01	
			2,806,506.05
Carried forward			$249,109,404.99

COMMISSION OF ONTARIO

and Liabilities, October 31, 1930

UNDERTAKINGS

LIABILITIES

To Province of Ontario:			
Cash advances for Niagara and other systems		$187,474,476.18	
Less: Repayment under provisions of Power Commission Acts, 1926 and 1927		10,675,033.88	
			$176,799,442.30
Grants in the hands of the Commission to apply against certain rural power districts in course of construction or extension		$80,137.91	
Less: Grants payable by the Province to the Commission in respect of certain rural power districts completed or in course of construction		1,282.52	
			78,855.39
Debentures issued by the Commission and guaranteed by the Province of Ontario:			
Four and three-quarter per cent debentures due 1970, issued in purchase of Undertakings and Companies from Dominion Power & Transmission Company, Limited, as at January 1, 1930	$13,000,000.00		
Five per cent debentures, due 1935, issued in purchase of Undertakings and Companies from Dominion Power & Transmission Company, Limited, as at January 1, 1930.	8,000,000.00		
Interest accrued thereon	340,095.00		
		$21,340,095.00	
Four per cent debentures due 1957, issued in purchase of Ontario Power Company of Niagara Falls	$8,000,000.00		
Interest accrued thereon	80,000.00		
		8,080,000.00	
Six per cent debentures due 1941, issued for the purpose of retiring the 1921 issue of the Ontario Power Company of Niagara Falls.	$3,200,000.00		
Interest accrued thereon	67,856.16		
		3,267,856.16	
Six per cent debentures due 1940, issued in purchase of the Toronto Power Company, Limited	$413,200.00		
Interest accrued thereon	10,330.00		
		423,530.00	
Six per cent debentures due 1940, issued in purchase of certain electrical power equipment of the Toronto and York Radial Railway	$205,800.00		
Interest accrued thereon	5,145.00		
		210,945.00	
Five per cent debentures due 1939, issued for the purpose of retiring the 1924 issue of the Toronto Power Company, Limited...	$4,000,000.00		
Interest accrued thereon	75,000.00		
		4,075,000.00	
Four per cent debentures due 1958, issued in purchase of distribution lines of Essex County	$200,000.00		
Interest accrued thereon	3,333.34		
		203,333.34	
Four per cent debentures due 1958, issued in purchase of distribution lines in vicinity of Thorold	$100,000.00		
Interest accrued thereon	1,666.67		
		101,666.67	
			37,702,426.17
Carried forward			$214,580,723.86

Detailed Statements of Assets

POWER UNDER

Assets			
Brought forward			$249,109,404.99
Patricia District:			
Ear Falls generating plant		$486,645.08	
Excess of operating expenses and interest over revenue in broken period to October 31, 1930—temporarily carried forward		4,391.97	
			491,037.05
Bonnechere River Storage:			
Round Lake dam		$23,072.93	
Golden Lake dam		11,092.81	
			34,165.74
Service Buildings and Equipment:			
Service building and equipment, Toronto		$498,060.49	
Equipment of storehouse and garage, Hamilton		3,666.40	
Pole yard and equipment, Cobourg		22,117.65	
			523,844.54
Office Buildings:			
On University avenue, Toronto		$525,007.00	
On corner Elm street and Centre avenue, Toronto		160,821.95	
			685,828.95
Office Furniture and Equipment:			
At Toronto office		$70,339.35	
At Electrical Inspection offices		7,501.26	
			77,840.61
Automobiles and Trucks			19,049.88
Inventories:			
Construction and maintenance tools and equipment		$892,887.61	
Construction material and sundry supplies		813,549.25	
Maintenance material and supplies		580,075.35	
Stationery and office supplies		25,530.34	
			2,312,042.55
Sinking Funds:			
Employed to make repayments to the Province of Ontario under the terms of the Power Commission Act, 1926 and 1927	$10,675,033.88		
Employed in retirement of bonds issued or assumed by the Commission and guaranteed by the Province	5,766,563.97		
	$16,441,597.85		
Invested in securities of the Province of Ontario which stand—			
(*a*) Deposited with Provincial Treasurer, par value, $1,171,000.00		$1,146,454.29	
(*b*) In the hands of the Commission, par value, $580,000.00		579,266.19	
Interest accrued thereon		21,992.54	
			1,747,713.02
Insurance Funds:			
(*a*) Invested in securities of the Dominion of Canada, par value, $750,000.00		$758,347.76	
(*b*) Invested in securities of the Province of Ontario, par value, $28,000.00		28,892.97	
Interest accrued thereon		620.08	
			787,860.81
Staff Pension Funds:			
Invested in securities of the Province of Ontario, par value, $1,995,000.00		$1,952,419.29	
Invested in bonds of the Wahnapitae Power Company, Limited, par value, $113,400.00		118,977.67	
Interest accrued thereon		20,734.09	
			2,092,131.05
Carried forward			$257,880,919.19

COMMISSION OF ONTARIO
and Liabilities—Continued

TAKINGS—Continued LIABILITIES

Brought forward			$214,580,723.86
Bonds and debenture stock assumed by the Commission and guaranteed by the Province of Ontario:			
First mortgage 5% gold bonds, due 1943, of the Ontario Power Company of Niagara Falls:			
Amount assumed at date of purchase of Company by Commission, August 1, 1917	$9,834,000 00		
Less: Retired by the Commission	1,704,000.00		
	$8,130,000.00		
Interest accrued thereon	101,625.00		
		$8,231,625.00	
First mortgage 5% gold bonds, due 1945, of the Ontario Transmission Company, Limited:			
Amount assumed at date of purchase of Company by Commission, August 1, 1917	$1,772,000.00		
Less: Retired by the Commission	409,000.00		
	$1,363,000.00		
Interest thereon payable November 1, 1930.	34,075.00		
		1,397,075.00	
Guaranteed 4½% debenture stock, due 1941, of the Toronto Power Company, Limited:			
Amount assumed at date of purchase of Company by Commission, December 1, 1920	$13,558,917.81		
Less: Retired by the Commission	6,290,288.33		
	$7,268,629.48		
Interest thereon payable November 1, 1930.	163,544.16		
		7,432‘173.64	
First mortgage 5% gold bonds, due 1933, of the Electrical Development Company of Ontario, Limited:			
Amount assumed at date of purchase of Company by Commission, December 1, 1920	$4,335,000.00		
Less: Retired by the Commission	894,000.00		
	$3,441,000.00		
Interest accrued thereon	28,675.00		
		3,469,675.00	
Other Debentures Assumed:			20,530,548.64
In respect of purchase of lines at Streetsville:			
Amount assumed at date of purchase	$6,000.00		
Less: Retired by the Commission	4,292.78		
	$1,707.22		
Interest accrued thereon	42.68		
		$1,749.90	
In respect of purchase of original Muskoka Power development:			
Amount assumed at date of purchase	$50,595.93		
Less: Retired by the Commission	26,237.44		
	$24,358.49		
Interest accrued thereon	918.32		
		25,276.81	
In respect of purchase of sundry rural lines:			
Amount assumed at dates of purchase	$63,501.03		
Less Retired by the Commission	20,920.23		
	$42,580.80		
Interest accrued thereon	1,015.47		
		43,596.27	
In respect of the purchase of the Wahnapitae properties:			
Six and one-half per cent bonds, due 1944, of the Wahnapitae Power Company, Limited		458,100.00	
			528,722.98
Carried forward			$235,639,995.48

HYDRO-ELECTRIC POWER

Detailed Statements of Assets

POWER UNDER

ASSETS		
Brought forward		$257,880,919.19
Reserve Funds:		
(*a*) Invested in securities of the Dominion of Canada, par value, $3,901,850.00	$3,910,190.98	
(*b*) Invested in securities of the Province of Ontario, par value, $20,723,500.00	20,398,295.45	
(*c*) Invested in securities of the Commission guaranteed by the Province of Ontario, par value, $3,653,205.00	3,622,995.57	
(*d*) Invested in bonds of the Temiskaming and Northern Ontario Railway, guaranteed by the Province of Ontario, par value, $240,000.00	205,511.97	
(*e*) Invested in debentures of Ontario municipalities, which debentures were received from certain municipalities upon the sale thereto of their local distribution systems, par value, $1,155,321.82	1,087,705.87	
Interest accrued thereon	341,550.67	
		29,566,250.51
Securities taken over by the Commission upon the transfer to it of the assets of Galetta Power & Milling Company, Limited, at the cost thereof	$33,617.50	
Interest accrued thereon	397.51	
		34,015.01
Cash:		
In banks	$307,656.41	
In banks to pay bond interest due November 1, 1930, and interest coupons overdue but not presented	255,663.92	
Sinking funds on deposit with trustees for bondholders	14,699.17	
In hands of employees as advances on account of expenses	199,853.22	
	$777,872.72	
Less Funds of Hydro Radial Railways shown elsewhere in this balance sheet	$121,111.98	
		656,760.74
Accounts receivable:		
Due by municipalities and sundry customers in respect of construction work, supply sales, etc.	$367,733.21	
Less Reserve for doubtful accounts	15,652.89	
		352,080.32
Due by municipalities and sundry customers in respect of power accounts	$3,678,077.72	
Less Reserve for doubtful accounts	307,585.61	
		3,370,492.11
Sinking fund and interest accounts owing in respect of rural lines		3,864.84
Due by Town of Renfrew for water used from Bonnechere Storage for power purposes		41,828.88
Claim against Dominion Government in respect of income taxes paid for the thirteen months ending December 31, 1921, which should be recoverable		72,334.46
Balances due by municipalities in respect of the costs of power supplied to them as provided to be paid under the Power Commission Act:		
Niagara system	$35,585.80	
Georgian Bay system	28,893.04	
Eastern Ontario system	21,557.35	
		86,036.19
Carried forward		$292,064,582.25

COMMISSION OF ONTARIO

and Liabilities—Continued

TAKINGS—Continued

LIABILITIES

Brought forward		$235,639,995.48
Outstanding share capital of the Electrical Development Company of Ontario, Limited		1,100.00
Accounts payable		922,017.06
Hydro-Electric Power Commission, Hamilton office:		
Current account (see balance sheet, page 152)		159,243.97
Interest coupons due but not presented for payment		58,044.76
Insurance department:		
Outstanding claims and awards	$786,040.98	
Surplus	105,767.28	
		891,808.26
Reserve for staff pensions		2,101,538.33
Balances due to municipalities in respect of amounts paid by them to October 31, 1930, in excess of the cost of power supplied to them as provided to be paid under the Power Commission Act:		
Niagara system	$1,370,631.57	
Thunder Bay system	3,063.71	
Georgian Bay system	51,574.19	
Eastern Ontario system	138,486.38	
		1,563,755.85
Reserves for sinking funds:		
Niagara system	$16,534,198.80	
Niagara rural lines	10,712.28	
Thunder Bay system	563,192.80	
Georgian Bay system	593,883.09	
Georgian Bay rural lines	612.20	
Eastern Ontario system	473,502.91	
Bonnechere storage	11,054.59	
	$18,187,156.67	
Service buildings	91,471.48	
Office buildings	118,864.24	
		18,397,492.39
Reserves for renewals:		
Niagara system	$12,950,327.76	
Niagara rural lines	3,544.05	
Thunder Bay system	774,203.93	
Georgian Bay system	1.005,695.02	
Georgian Bay rural lines	303.92	
Eastern Ontario system	2,640,006.44	
Bonnechere storage	7,254.30	
	$17,381,335.42	
Service buildings	264,274.04	
Office buildings	95,600.51	
		17,741,209.97
Reserves for obsolescence and contingencies:		
Niagara system	$13,568,525.83	
Niagara rural lines	1,723.40	
Thunder Bay system	828,595.58	
Georgian Bay system	288,862.02	
Georgian Bay rural lines	119.78	
Eastern Ontario system	1,010,209.01	
Bonnechere storage	925.27	
Sudbury district	10,582.50	
Walkerton and Saugeen properties	305.61	
		15,709,849.00
Balance at credit of interest account		16,883.49
Contingent liabilities:		
In respect of contracts entered into for power undertakings in course of construction....$2,836,643.74		
Carried forward		$293,202,938.56

HYDRO-ELECTRIC POWER
Detailed Statements of Assets
POWER UNDER

ASSETS

Brought forward			$292,064,582.00
Work in progress:			
Expenditure on account of various systems chargeable upon completion to:			
Capital construction		$61,471.36	
Operating and maintenance expenses		37,429.27	
			98,900.63
Insurance unexpired			27,339.41
Discount on debentures issued by the Commission, less amounts written off:			
On debenture issue of $3,200,000 maturing 1941		$83,298.81	
On debenture issue of $4,000,000 maturing 1939		54,691.20	
			137,990.01
Total Power Undertakings			$292,328,812.30

RADIAL RAILWAY

Sandwich, Windsor and Amherstburg Railway:			
Road and equipment		$5,394,228.57	
Material and supplies		114,516.91	
Cash in banks:			
In the general bank account of the Commission at Toronto	$112,292.98		
In branch banks	10,341.10		
Accounts receivable	67,658.02		
		190,292.10	
Insurance and expenses prepaid		8,999.26	
Due by certain municipalities in accordance with the apportionment by the Commission of the operating deficit for the year ending October 31, 1930, as provided under sections 9 and 10 of the Hydro-Electric Railway Act		147,992.59	
			$5,856,029.43
Carried forward			$298,184,841.73

COMMISSION OF ONTARIO
and Liabilities—Continued
TAKINGS—Continued

LIABILITIES

Brought forward			$293,202,938.56
Total Power Undertakings			$293,202,938.56

UNDERTAKINGS

In respect of the Sandwich, Windsor and Amherstburg Railway:			
Debentures issued by the Commission and guaranteed by the Province of Ontario:			
Four and one-half per cent debentures, due 1960, issued in purchase of the railway	$2,039,000.00		
Four and one-half per cent debentures, due 1960, issued for the purpose of making extensions and betterments	61,000.00		
Six per cent debentures, due 1961, issued for the purpose of making extensions and betterments	900,000.00		
Five per cent debentures, due 1943, issued for the purpose of making extensions and betterments	966,205.00		
Five per cent debentures, due 1945, issued for the purpose of making extensions and betterments	750,000.00		
Five per cent debentures, due 1945, issued for the purpose of making extensions and betterments	100,000.00		
Five per cent debentures, due 1946, issued for the purpose of making extensions and betterments	600,000.00		
	$5,416,205.00		
Interest accrued thereon	56,010.05		
		$5,472,215.05	
Bank of Montreal—advances (secured by hypothecation of $400,000 five per cent 1946 debentures of the Commission guaranteed by the Province)		275,000.00	
Accounts payable and accrued charges	$7,101.00		
Provision for unredeemed tickets	12,000.00		
Deposit to cover cost of industrial spur	1,423.51		
		20,524.51	
Premiums (less discount) on sale of debentures—less portion written off		57,037.96	
Reserve for renewal of road and equipment		18,352.66	
Reserve for Sinking Fund		12,899.25	
Contingent Liability:			
In respect of contracts entered into for work under construction	$2,213.76		
			5,856,029.43
Carried forward			$299,058,967.99

HYDRO-ELECTRIC POWER

Detailed Statements of Assets

RADIAL RAILWAY

ASSETS

Brought forward			$298,184,841.73
Guelph Radial Railway:			
Road and equipment		$450,300.18	
Materials and supplies		7,393.13	
Reserve funds:			
Invested in securities of the Province of Ontario, par value, $25,000	$22,433.32		
Interest accrued thereon	472.98	22,906.30	
Cash in banks:			
In the general bank account of the Commission at Toronto	$8,819.00		
In bank at Guelph	911.30		
ccounts receivable	9,551.00	19,281.30	
Insurance and expenses prepaid		1,158.00	
Due by the city of Guelph:			
Operating deficit for the year ending October 31, 1930, as per operating account	$32,928.73		
Less Paid on account by the city	29,000.00	3,928.73	504,967.64
Toronto and York Radial Railway:			
City of Toronto—debentures held as collateral security for the repayment of the Hydro Radial debentures issued in purchase of the Toronto and York Radial—as per agreement covering the transfer (in January, 1927) of the railway to the City of Toronto		$2,375,000.00	
City of Toronto—interest accrued on $2,375,000 debentures issued by the Commission in purchase of the Toronto and York Radial Railway		59,375.00	2,434,375.00
Port Credit to St. Catharines Radial Railway:			
Purchase of right-of-way and carrying charges (taxes, less rental revenue) down to October 31, 1930		$72,647.80	
Construction materials purchased, less amount realized on sale thereof		117,510.09	
Surveying, engineering, administrative expenses and interest.		317,929.67	508,087.56
Toronto to Port Credit Radial Railway:			
Purchase of right-of-way and carrying charges (taxes, less rental revenue) down to October 31, 1930—less amounts realized on properties sold		$459,609.92	
Surveying, engineering, administrative expenses and interest.		406,428.78	866,038.70
			$302,498,310.63

COMMISSION OF ONTARIO

and Liabilities—Concluded

UNDERTAKINGS—Continued

LIABILITIES

Brought forward			$299,058,967.99
In respect of the Guelph Radial Railway:			
City of Guelph—purchase price of the railway payable thereto, in half-yearly instalments, according to purchase agreement	$150,000.00		
Less Eighteen instalments paid thereon	54,184.55		
		$95,815.45	
Debentures issued by the Commission and guaranteed by the Province of Ontario:			
Six per cent debentures, due 1931, issued for the purpose of making extensions and betterments	$300,000.00		
Interest accrued thereon payable November 1, 1930	9,000.00		
		309,000.00	
Instalments of principal and interest payable to the city of Guelph, May 1, and November 1, 1930, under the terms of the purchase agreement		11,700.00	
Accounts payable and accrued charges	$1,224.05		
Provision for unredeemed tickets	1,300.00		
		2,524.05	
Premiums on sale of debentures—less portion written off		1,329.10	
Reserve—created by payment of instalments on the purchase price out of the revenue of the road and assessments against the city of Guelph		54,184.55	
Reserve for renewal of road and equipment		30,414.49	
			504,967.64
In respect of Toronto and York Radial Railway:			
Debentures issued by the Commission and guaranteed by the Province of Ontario:			
Six per cent debentures, due 1940, issued in purchase of the Metropolitan, Scarboro and Mimico Radial Railway divisions		$2,375,000.00	
Interest accrued thereon		59,375.00	
			2,434,375.00
In respect of the Port Credit to St. Catharines Radial Railway:			
Bank of Montreal—advances (secured by hypothecation of $1,200,000 Hydro Radial debentures, being part of an issue of $11,360,363 guaranteed by the Province of Ontario)			500,000.00
			$302,498,310.63

HYDRO-ELECTRIC POWER

Statement of Assets and Liabilities—as at 31st October, 1930—

DOMINION POWER AND

ASSETS

Properties, buildings, plants, lines, equipment, franchises, water-rights, contracts, etc., at the cost thereof to the Commission as at 1st January, 1930	$21,000,000.00	
Net additions in the ten months ending 31st October, 1930	58,152.14	
	$21,058,152.14	
Deduct: Provisions for depreciation on buses, less charges thereagainst, in the ten months ending 31st October, 1930	123,066.66	
		$20,935,085.48
Current assets:		
Cash in banks and on hand	$200,923.68	
Cash in hands of employees	14,799.36	
Accounts receivable	230,558.90	
Materials and stores	216,495.08	
Insurance deposits and prepayments	21,637.45	
Power and light revenue accrued	38,500.00	
		722,914.47
Hydro-Electric Power Commission—Toronto Office, current account	$499,338.97	
Less accrued interest on Commission's bonds, charged by the Commission	340,095.00	
		159,243.97
		$21,817,243.92

COMMISSION OF ONTARIO

of Undertakings and Companies Acquired 1st January, 1930, from

TRANSMISSION COMPANY, LIMITED

LIABILITIES

Hydro-Electric Power Commission of Ontario:			
Bonds issued by the Commission and guaranteed by the Province, in purchase of the Undertakings and Companies		$21,000,000.00	
Cash paid by the Commission in purchase of inventories, accounts receivable and cash working funds		489,434.83	
			$21,489,434.83
Current liabilities:			
Accounts payable		$163,724.28	
Dominion Power Company—on adjustments		17,625.74	
Customers' deposits		7,954.27	
Realty and business taxes payable and accrued		24,556.50	
Pensions awarded (approximate actuarial liability)	$55,092.10		
Less: deposits thereagainst	54,205.15		
		886.95	
Provision for accident claims		6,230.43	
Provision for outstanding tickets		11,900.00	
Reserve against accounts receivable		42,151.82	
			275,029.99
Surplus—For period 1st January to 31st October, 1930, after making provision for interest on the bonds of the Commission issued in purchase of the Undertakings and Companies, but before provision for depreciation on plants and equipment other than on the buses			52,779.10
			$21,817,243.92

HYDRO-ELECTRIC POWER

Statement of Revenue and Expenditure for the period 1st January to 31st October,

DOMINION POWER AND

EXPENDITURE

Of power and light plants and utilities:		
Cost of operating and maintaining generating plants, transmission lines, stations and distribution systems	$468,615.48	
Water rentals	176,951.37	
Power purchased	134,734.54	
Taxes—Realty and business	69,648.29	
Commercial expenses	54,215.21	
General and administrative expenses—proportion	80,028.51	
Provision for bad debts	2,306.89	
		$986,500.29
Of Hamilton street railway, radial railways and bus lines—		
Cost of operating and maintaining buildings, rights-of-way, rolling stock, buses and other equipment	$1,115,396.03	
Electric Power	167,817.20	
Depreciation on buses	165,222.85	
Taxes—Realty and business	107,917.27	
General and administrative expenses—proportion	152,171.98	
Provision for bad debts	2,500.00	
		1,711,025.33
Of Hamilton Terminal building—		
Wages, heating, power, light and sundry expenses	$12,955.33	
Taxes—Realty and business	10,545.23	
General and administrative expenses—proportion	1,886.74	
		25,387.30
Net loss on purchase and sale of electric appliances and merchandise		384.86
		$2,723,297.78
Interest on the bonds issued by the Commission, and guaranteed by the Province of Ontario, in purchase of the Undertakings and Companies		848,845.00
		$3,572,142.78
Surplus for the period 1st January to 31st October, 1930, before provision for depreciation on plants and equipment other than on the buses		52,779.10
		$3,624,921.88

COMMISSION OF ONTARIO

1930—of Undertakings and Companies Acquired 1st January, 1930, from

TRANSMISSION COMPANY, LIMITED

REVENUE

From power and light plants and utilities—		
Power and light sold to customers	$1,514,180.08	
Power supplied to Hamilton street railway and the radial railways	167,817.20	
Power and light supplied to the buildings, shops and services of the associated companies	6,493.25	
		$1,688,490.53
From Hamilton street railway, radial railways and bus lines—Passenger, freight and miscellaneous		1,896,699.15
From Hamilton Terminal building—Rentals (including those charged the Commission and associated companies)		39,732.20
		$3,624,921.88

HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Undertakings and Companies Acquired 1st January, 1930, from Dominion Power Transmission Company, Limited, under provisions of Purchase Agreement dated 2nd April, 1930, and Supplemental Agreement dated 14th August, 1930

All the outstanding shares of the following companies:

1. Hamilton Cataract Power, Light and Traction Company, Limited, which Company in turn owns all the outstanding shares of the companies following:
    (a) Hamilton Electric Light and Power Company, Limited.
    (b) Hamilton Street Railway Company.
    (c) Hamilton and Dundas Street Railway Company (not operating).
    (d) Hamilton Radial Electric Railway Company (not operating).
    (e) Dundas Electric Company, Limited.
    (f) Lincoln Electric Light and Power Company, Limited.
    (g) Hamilton Electric Light and Cataract Power Company (not operating).
2. Hamilton, Grimsby and Beamsville Electric Railway Company.
3. Brantford and Hamilton Electric Railway Company.
4. Hamilton Terminal Company, Limited.
5. Western Counties Electric Company, Limited.
6. Highway King Buses, Limited.
7. Brantford Electric and Operating Company, Limited (not operating).

Steam generating plant situated at Hamilton.
Certain real estate and rights-of-way.

NIAGARA

Operating Account for the

COSTS OF OPERATION AS PROVIDED FOR UNDER THE TERMS OF THE POWER COMMISSION ACT

Power purchased		$2,644,916.07
Costs of operation and maintenance, including the proportion of administrative expenses chargeable to the operation of this system:		
Generation and transmission equipment	$4,185,370.37	
Rural power districts	408,419.77	
		4,593,790.14
Interest on capital investment in:		
Generation and transmission equipment	$8,069,566.72	
Rural power districts	186,962.86	
		8,256,529.58
Provision for renewals of:		
Generation and transmission equipment	$1,438,994.71	
Rural power districts	167,463.56	
		1,606,458.27
Provision for obsolescence and contingencies in respect of:		
Generation and transmission equipment	$2,810,053.15	
Rural power districts	83,731.78	
		2,893,784.93
Provision for sinking funds for repayment of the cash advances by the Province of Ontario to the Commission and for the retirement of the bonds issued by and assumed by the Commission:		
By charges included in the cost of power delivered to municipalities and rural power districts	$1,245,766.22	
By charges against contracts with private companies which purchase power	504,454.79	
By charges included in the cost of distribution of power within rural power districts	44,370.01	
		1,794,591.02
		$21,790,070.01

SYSTEM

Year Ending October 31, 1930

Revenue for Period

Collected from municipalities	$15,009,844.09	
Power sold to private companies	5,987,225.80	
Power supplied at cost to the Hydro Radial Railway (S.W. & A. and W.E. & L.S.)	114,011.86	
Collected from customers in rural power districts	1,628,018.20	
		$22,739,099.95
Add:		
Amounts due by certain municipalities, being the difference between the sums paid and the cost of power supplied to them in the year	$11,967.70	
Amounts due by municipalities comprising certain rural power districts, being the difference between the revenue collected from customers therein and the cost of power supplied them in the year	23,721.41	
		35,689.11
		$22,774,789.06
Deduct:		
Amounts collected from certain municipalities in excess of the sums required to be paid by them for power supplied in the year	$839,016.71	
Amounts collected from customers in certain rural power districts in excess of the cost of power delivered thereto	145,702.34	
		984,719.05
Revenue		$21,790,070.01

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under received by the Commission from each Municipality on account of such upon ascertainment (by annual adjustment) of the actual

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1930	To Oct. 31 1930				Operating, maintenance and administrative expenses	Interest
	$ c.	$ c.	$ c.		$ c.	$ c.	$ c.
Acton	34.00	33.00	173,149.82	709.8	2,161.48	6,092.39	8,025.56
Agincourt	44.00	42.00	40,292.52	127.1	387.04	935.47	1,867.32
Ailsa Craig	......	48.00	35,137.36	102.5	312.13	1,480.66	1,602.96
Alvinston	......	90.00	61,962.35	84.4	257.01	2,196.17	2,788.44
Amherstburg	......	40.00	160,066.79	606.9	1,848.13	5,748.72	7,500.30
Ancaster twp.	......	30.00	48,594.63	225.3	686.08	1,741.54	2,294.45
Arkona	......	75.00	29,815.30	52.3	159.26	1,092.74	1,361.66
Aylmer	38.00	36.00	122,041.73	472.9	1,440.07	3,390.47	5,706.31
Ayr	......	35.00	38,036.92	155.5	473.53	1,760.92	1,772.60
Baden	......	32.00	67,297.26	278.3	847.48	1,987.04	3,130.51
Barton twp.	......	30.00	12,925.72	70.5	214.69	612.11	622.34
Beachville	34.00	33.00	67,903.67	304.0	925.74	2,068.93	3,158.75
Belle River	......	38.00	33,040.63	128.6	391.61	1,235.29	1,550.46
Blenheim	......	39.00	96,062.99	347.2	1,057.29	3,747.46	4,461.10
Blyth	63.00	60.00	36,912.20	83.8	255.19	1,234.35	1,690.60
Bolton	46.00	44.00	38,217.28	117.0	356.29	1,367.33	1,741.60
Bothwell	45.00	44.00	29,838.70	100.7	306.65	1,481.48	1,387.20
Brampton	30.00	29.00	395,165.74	1,884.7	5,739.28	11,718.80	18,700.52
Brantford	......	27.00	2,032,096.87	9,906.6	30,167.51	49,678.21	96,319.77
Brantford twp.	......	27.00	108,048.52	524.2	1,596.29	4,410.61	5,170.65
Bridgeport	......	32.00	16,939.88	78.3	238.44	1,124.06	809.84
Brigden	75.00	72.00	38,676.71	78.9	240.27	1,793.69	1,788.19
Brussels	......	52.00	49,195.78	123.8	376.99	1,593.11	2,260.87
Burford	40.00	38.00	34,983.26	140.5	427.85	1,123.14	1,614.78
Burgessville	46.00	43.00	17,577.61	57.2	174.19	773.24	809.61
Caledonia	......	29.00	64,192.21	298.0	907.47	1,559.92	3,041.42
Campbellville	70.00	60.00	6,958.38	25.9	78.87	215.96	312.55
Cayuga	60.00	55.00	27,475.16	82.9	252.45	1,202.83	1,268.84
Chatham	......	30.00	976,775.56	4,409.5	13,427.78	28,282.05	46,024.91
Chippawa	......	25.00	40,857.15	246.2	749.73	1,860.80	1,974.95
Clifford	......	56.00	24,629.54	54.8	166.88	835.94	1,140.16
Clinton	......	38.00	118,059.10	416.0	1,266.80	3,277.78	5,475.45
Comber	......	45.00	46,372.98	136.7	416.28	1,754.56	2,117.10
Cottam	......	45.00	18,547.63	60.8	185.15	688.75	866.79
Courtright	80.00	75.00	22,990.65	44.4	135.21	1,052.32	1,045.60
Dashwood	......	50.00	25,389.00	64.4	196.11	783.23	1,101.98
Delaware	38.00	36.00	7,995.42	34.3	104.45	327.87	376.81
Dorchester	......	38.00	18,506.97	71.2	216.82	773.53	848.30
Drayton	......	55.00	39,146.65	86.8	264.32	1,106.98	1,758.30
Dresden	......	45.00	88,626.52	279.2	850.22	3,767.80	4,085.43

SYSTEM

the Power Commission Act) of Power supplied to it by the Commission, the amount cost; and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1930

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,715.06	2,723.22	1,782.02	413.59	22,913.32	23,526.54	613.22	....
423.33	549.32	419.45	74.06	4,655.99	5,376.86	720.87	....
404.04	485.13	367.84	59.73	4,712.49	4,921.32	208.83	....
825.56	690.62	652.08	49.18	7,459.06	7,594.50	135.44	....
1,633.16	2,502.60	1,672.45	353.63	21,258.99	24,273.95	3,014.96	....
462.80	805.54	506.25	131.28	6,627.94	6,759.99	132.05	....
382.81	351.19	313.70	30.47	3,691.83	3,925.60	233.77	....
1,259.75	1,888.80	1,272.83	275.55	15,233.78	17,208.86	1,975.08	....
381.28	600.98	394.50	90.61	5,474.42	5,443.34	....	...31.08
675.84	1,083.79	702.77	162.16	8,589.59	8,904.61	315.02	....
111.15	224.90	134.79	41 08	1,961.06	2,113.75	152.69	....
654.53	1,128.88	708.34	177.14	8,822.31	10,082.86	1,260.55	....
331.92	521.25	344.46	74.93	4,449.92	4,887.41	437.49	....
1,012.06	1,490.02	1,003.92	202.31	12,974.16	13,538.82	564.66	....
451.63	472.12	387.03	48.83	4,539.75	5,072.02	532.27	....
429.59	524.86	399.07	68.17	4,886.91	5,198.68	311.77	....
333.95	456.57	319.55	58.68	4,344.08	4,451.09	107.01	....
3,663.62	6,439.86	4,119.24	1,098.19	51,479.51	59,524.30	8,044.79	....
18,643.39	34,230.74	21,168.50	5,772.44	255,980.56	267,477.50	11,496.94	....
994.32	1,819.12	1,125.60	305.44	15,422.03	14,152.03	....	1,270.00
160.22	286.83	176.71	45.62	2,841.72	2,507.22	....	334.50
493.07	502.28	413.96	45.97	5,277.43	5,723.79	446.36	....
587.17	656.18	515.57	72.14	6,062.03	6,437.13	375.10	....
349.83	562.82	360.19	81.87	4,520.48	5,382.62	862.14	....
193.58	247.75	182.72	33.33	2,414.42	2,487.48	73.06	....
610.78	1,063.68	668.66	173.64	8,025.57	8,641.96	616.39	....
68.26	102.98	69.18	15.09	862.89	1,601.66	738.77	....
313.76	381.34	286.99	48.30	3,754.51	4,634.11	879.60	....
9,204.81	16,214.49	10,188.59	2,569.35	125,911.98	132,522.02	6,610.04	....
336.21	728.90	424.92	143.46	6,218.97	6,154.75	....	64.22
307.15	307.07	261.38	31.93	3,050.51	3,065.98	15.47	....
1,264.27	1,725.40	1,234.92	242.40	14,487.02	15,349.41	862.39	....
525.29	651.36	484.29	79.65	6,028.53	6,151.46	122.93	....
200.82	271.05	193.68	35.43	2,441.67	2,734.10	292.43	....
289.08	273.38	241.10	25.87	3,062.56	3,373.10	310.54	....
284.13	319.69	252.36	37.53	2,975.03	3,221.20	246.17	....
78.76	129.40	83.46	19.99	1,120.74	1,247.49	126.75	....
186.87	287.92	189.67	41.49	2,544.60	2,703.96	159.36	....
473.11	480.84	404.60	50.58	4,538.73	4,776.72	237.99	....
983.06	1,291.77	926.07	162.69	12,067.04	12,563.24	496.20	....

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under
received by the Commission from each Municipality on account of such
upon ascertainment (by annual adjustment) of the actual

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1930	To Oct. 31 1930				Operating, maintenance and administrative expenses	Interest
	$ c.	$ c.	$ c.		$ c.	$ c.	$ c.
Drumbo	......	45.00	16,999.39	59.4	180.88	1,316.28	776.88
Dublin	......	50.00	17,040.38	40.7	123.94	799.72	776.31
Dundas	......	25.00	298,098.78	1,605.1	4,887.84	6,698.95	14,250.40
Dunville	38.00	35.00	164,373.26	680.7	2,072.86	6,386.60	7,890.80
Dutton	......	38.00	50,451.31	209.6	638.27	2,221.34	2,361.95
East Windsor	33.00	32.00	875,881.80	3,839.6	11,692.32	24,480.02	41,536.47
Elmira	......	31.00	251,578.65	1,035.5	3,153.30	6,252.07	11,710.10
Elora	......	35.00	103,815.31	412.7	1,256.75	5,286.93	4,807.15
Embro	......	55.00	28,334.82	79.3	241.48	1,061.73	1,294.93
Erieau	58.00	56.00	22,746.94	52.9	161.09	984.28	1,037.77
Erie Beach	65.00	70.00	6,447.48	13.8	42.02	286.34	294.59
Essex	......	35.00	85,149.40	342.4	1,042.67	2,735.87	3,993.35
Etobicoke twp.	30.00	29.00	594,597.56	2,776.3	8,454.37	15,094.98	28,336.45
Exeter	......	38.00	108,022.91	391.4	1,191.89	3,049.22	5,021.05
Fergus	......	35.00	158,982.40	658.7	2,005.87	7,929.04	7,424.98
Fonthill	......	35.00	22,395.58	106.5	324.31	1,041.75	1,075.20
Forest	......	48.00	96,166.78	285.9	870.62	3,900.43	4,460.28
Galt	......	27.00	1,336,396.04	6,591.3	20,071.78	34,918.81	63,387.07
Georgetown	......	35.00	244,995.57	922.6	2,809.50	8,569.50	11,362.82
Glencoe	60.00	58.00	64,582.15	155.8	474.44	2,853.85	3,003.21
Goderich	......	42.00	330,870.67	1,032.1	3,142.94	9,418.18	15,247.06
Granton	......	48.00	21,577.64	62.8	191.24	966.09	988.79
Guelph	......	27.00	1,507,759.96	7,961.5	24,244.31	43,011.99	71,844.41
Hagersville	......	31.00	227,772.34	1,001.0	3,048.24	5,059.69	10,737.60
Hamilton	......	23.50	11,285,973.85	61,535.0	187,385.96	236,348.47	544,453.87
Harriston	......	42.00	83,988.24	293.2	892.85	3,603.46	4,052.40
Harrow	......	40.00	83,604.65	302.6	921.47	2,538.36	3,719.51
Hensall	......	50.00	48,070.71	141.0	429.37	1,508.83	2,216.93
Hespeler	......	29.00	252,215.77	1,187.4	3,615.86	7,485.38	11,957.78
Highgate	......	44.00	29,208.89	92.9	282.90	1,290.28	1,345.91
Humberstone	......	28.00	70,820.06	319.2	972.03	3,084.40	2,941.76
Ingersoll	......	28.00	433,327.41	2,137.4	6,508.80	11,723.95	20,542.82
Jarvis	......	38.00	49,899.47	174.4	531.08	1,202.34	2,331.15
Kingsville	......	40.00	113,630.36	429.1	1,306.69	3,406.91	5,270.25
Kitchener	......	27.00	3,160,548.90	15,623.7	47,577.18	77,236.63	150,212.26
Lambeth	......	42.00	26,773.72	97.1	295.69	1,106.07	1,247.21
LaSalle	......	38.00	64,279.70	257.3	783.53	1,892.50	3,043.09
Leamington	......	38.00	267,169.67	964.3	2,936.48	7,677.88	12,443.40
Listowel	......	36.00	218,981.37	832.3	2,534.51	8,208.83	10,018.73
London	......	26.00	5,536,853.41	28,184.5	85,827.25	127,259.97	263,690.25

SYSTEM *COST OF POWER*

the Power Commission Act) of Power supplied to it by the Commission, the amount cost; and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1930

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
180.21	249.45	174.96	34.61	2,913.27	2,673.35	....	239.92
206.03	247.69	178.63	23.72	2,356.04	2,034.96	....	321.08
2,602.49	5,158.01	3,119.07	935.27	37,652.03	40,733.97	3,081.94	....
1,754.14	2,373.97	1,753.85	396.63	22,628.85	24,229.08	1,600.23	....
503.75	812.47	525.81	122.13	7,185.72	7,963.17	777.45	....
8,278.58	14,399.20	9,139.10	2,237.28	111,762.97	123,479.69	11,716.72	....
2,496.31	4,000.88	2,602.00	603.37	30,818.03	32,101.50	1,283.47	....
1,051.03	1,606.44	1,073.91	240.47	15,322.68	14,443.68	....	879.00
330.07	392.09	296.63	46.21	3,663.14	4,359.18	696.04	....
273.73	289.55	236.88	30.82	3,014.12	2,975.19	....	38.93
79.49	80.69	67.48	8.04	858.65	959.34	100.69	....
841.44	1,362.26	887.42	199.51	11,062.52	11,984.50	921.98	....
5,535.31	9,902.99	6,199.27	1,617.71	75,141.08	81,022.71	5,881.63	....
1,150.33	1,603.49	1,129.07	228.06	13,373.11	14,872.21	1,499.10	....
1,578.13	2,461.81	1,644.27	383.82	23,427.92	23,055.04	....	372.88
216.88	347.99	233.99	62.06	3,302.18	3,727.17	424.99	....
1,090.40	1,389.96	1,011.19	166.59	12,889.47	13,721.04	831.57	....
12,167.80	22,641.09	13,929.25	3,840.66	170,956.46	186,443.54	15,487.08	....
2,562.11	3,682.61	2,549.94	537.59	32,074.07	32,292.17	218.10	....
792.92	849.35	688.31	90.78	8,752.86	9,089.76	336.90	....
3,706.16	4,556.59	3,463.64	601.39	40,135.96	42,082.07	1,946.11	....
248.13	290.18	225.78	36.59	2,946.80	3,014.10	67.30	....
13,115.23	25,981.36	15,690.52	4,639.06	198,526.88	214,959.20	16,432.32	....
2,240.90	3,681.63	2,378.93	583.27	27,730.26	31,031.27	3,301.01	....
97,080.00	196,346.16	117,686.31	35,855.63	1,415,156.40	1,447,815.18	32,658.78	....
956.75	1,284.40	916.50	170.84	11,877.20	12,315.37	438.17	....
802.06	1,230.57	825.29	176.32	10,213.58	12,105.30	1,891.72	....
551.75	651.41	503.15	82.16	5,943.60	7,049.13	1,105.53	....
2,363.53	4,178.84	2,629.73	691.88	32,923.00	36,317.86	3,394.86	....
322.99	424.22	305.26	54.13	4,025.69	4,086.09	60.40	....
556.05	1,048.06	636.81	185.99	9,425.10	8,937.29	....	487.81
3,940.52	7,222.21	4,515.97	1,245.43	55,699.70	59,845.96	4,146.26	....
543.67	718.05	522.04	101.62	5,949.95	6,626.55	676.60	....
1,146.88	1,774.70	1,176.98	250.03	14,332.44	17,163.96	2,831.52	....
28,673.79	53,938.34	32,947.80	9,103.72	399,689.72	421,840.91	22,151.19	....
285.07	400.98	279.88	56.58	3,671.48	4,078.20	406.72	....
638.62	1,026.46	671.30	149.93	8,205.43	9,776.73	1,571.30	....
2,761.77	4,034.92	2,774.38	561.88	33,190.71	36,643.56	3,452.85	....
2,193.37	3,366.08	2,234.80	484.97	29,041.29	29,962.50	921.21	....
49,225.35	94,809.02	57,709.47	16,422.76	694,944.07	732,796.51	37,852.44	....

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under received by the Commission from each Municipality on account of such upon ascertainment (by annual adjustment) of the actual

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1930	To Oct. 31 1930				Operating, maintenance and administrative expenses	Interest
	$ c.	$ c.	$ c.		$ c.	$ c.	$ c.
London Ry. Com	15.00+	kw. hr.	329,399.56	1,347.1	4,102.18	12,639.64	15,327.51
London twp....	37.00	35.00	60,746.57	253.1	770.74	2,016.80	2,881.44
Lucan.........	......	37.00	40,739.42	164.8	501.85	1,463.66	1,892.19
Lynden........	......	40.00	23,783.98	82.9	252.45	821.04	1,087.90
Markham......	50.00	45.00	57,329.17	206.5	628.83	2,699.69	2,687.53
Merlin.........	......	47.00	46,685.59	148.9	453.43	1,537.56	2,164.93
Merritton......	......	22.00	360,520.80	2,251.1	6,855.03	9,570.09	17,722.54
Milton.........	32.00	31.00	230,411.12	1,009.1	3,072.90	7,994.46	10,763.87
Milverton......	......	33.00	90,366.94	349.1	1,063.08	3,140.07	4,139.24
Mimico........	27.00	26.00	356,204.47	1,834.9	5,587.62	9,533.92	17,018.44
Mitchell.......	......	33.00	104,983.93	437.9	1,333.49	3,105.44	4,916.78
Moorefield.....	......	60.00	20,535.82	44.3	134.90	769.67	921.35
Mount Brydges	......	45.00	20,408.75	77.4	235.70	973.40	954.46
Newbury......	......	52.00	13,328.66	36.8	112.06	731.36	624.16
New Hamburg.	......	33.00	113,591.58	439.4	1,338.06	3,228.33	5,279.13
New Toronto...	......	29.00	1,101,820.79	5,113.6	15,571.90	29,848.45	52,128.71
Niagara Falls...	......	19.00	1,411,813.71	9,534.1	29,033.17	31,083.93	69,312.62
Niagara on Lake	......	28.00	80,534.19	461.8	1,406.27	3,307.08	3,898.62
Norwich.......	......	34.00	74,012.07	314.6	958.02	2,579.37	3,448.76
Oil Springs.....	......	42.00	54,541.20	165.8	504.89	1,885.46	2,491.93
Otterville......	......	43.00	22,621.83	81.9	249.40	992.53	1,052.75
Palmerston.....	......	38.00	126,283.75	452.6	1,378.25	5,044.33	5,754.76
Paris..........	......	28.00	260,984.13	1,270.1	3,867.70	7,774.92	12,338.49
Parkhill........	......	62.00	64,592.78	142.0	432.42	2,273.19	2,945.04
Petrolia........	......	40.00	219,534.48	771.9	2,350.58	7,687.97	10,365.32
Petrolia W. W..	52.00	48.00	42,240.63	122.7	373.65	1,225.00	1,741.23
Plattsville......	......	60.00	21,522.20	54.3	165.35	1,430.94	967.52
Point Edward..	......	40.00	151,701.48	615.2	1,873.40	7,450.05	7,136.53
Port Colborne..	......	28.00	321,641.09	1,449.7	4,414.62	13,715.19	13,326.91
Port Credit....	......	32.00	102,934.83	472.3	1,438.24	3,573.60	4,876.88
Port Dalhousie.	......	30.00	94,766.24	445.9	1,357.85	2,684.02	4,217.61
Port Dover....	......	42.00	80,764.98	270.1	822.51	2,588.08	3,759.89
Port Rowan....	90.00	80.00	38,324.38	64.0	194.89	1,148.37	1,747.47
Port Stanley...	42.00	40.00	93,151.88	321.6	979.33	3,382.05	4,306.02
Preston........	......	27.00	670,031.05	3,365.8	10,249.51	18,176.18	31,825.55
Princeton......	......	55.00	28,263.74	82.4	250.92	2,097.06	1,290.79
Queenston.....	......	29.00	17,489.58	89.9	273.76	929.01	836.47
Richmond Hill.	......	38.00	56,230.43	226.2	688.82	2,632.33	2,655.68
Ridgetown.....	......	38.00	112,948.32	421.9	1,284.77	4,398.24	5,267.39
Riverside......	......	33.00	291,930.55	1,154.0	3,514.15	6,660.57	13,729.33

the Power Commission Act) of Power supplied to it by the Commission, the amount cost; and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1930

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
3,314.82	5,493.51	3,433.63	784.94	45,096.23	45,377.44	281.21	....
607.43	969.22	634.33	147.48	8,027.44	8,953.33	925.89	....
412.88	642.38	425.23	96.03	5,434.22	6,097.88	663.66	....
260.35	345.58	249.50	48.30	3,065.12	3,315.42	250.30	....
514.15	798.28	559.58	120.32	8,008.38	9,453.40	1,445.02	....
516.35	691.39	488.34	86.76	5,938.76	6,996.97	1,058.21	....
2,851.10	6,383.35	3,753.62	1,311.69	48,447.42	49,525.08	1,077.66	....
2,244.04	3,595.89	2,403.81	587.99	30,662.96	31,462.88	799.92	....
918.29	1,430.27	936.18	203.42	11,830.55	11,520.93	....	309.62
3,106.42	5,999.38	3,709.73	1,069.17	46,024.68	48,061.25	2,036.57	....
1,041.48	1,670.58	1,096.82	255.16	13,419.75	14,450.31	1,030.56	....
249.81	248.90	212.36	25.81	2,562.80	2,659.41	96.61	....
213.23	313.48	213.27	45.10	2,948.64	3,482.59	533.95	....
158.41	189.81	142.30	21.44	1,979.54	1,911.84	....	67.70
1,177.15	1,768.90	1,186.87	256.03	14,234.47	14,499.35	264.88	....
10,294.11	18,370.76	11,487.63	2,979.63	140,681.19	148,293.01	7,611.82	....
10,517.94	25,750.44	14,698.75	5,555.39	185,952.24	181,146.91	....	4,805.33
691.97	1,341.91	840.09	269.08	11,755.02	12,931.03	1,176.01	....
733.36	1,173.66	772.36	183.31	9,848.84	10,697.77	848.93	....
609.83	824.85	570.61	96.61	6,984.18	6,962.16	....	22.02
241.24	335.80	236.40	47.72	3,155.84	3,520.59	364.75	....
1,299.36	1,888.38	1,290.12	263.72	16,918.92	17,198.70	279.78	....
2,397.20	4,399.22	2,718.85	740.07	34,236.45	35,668.58	1,432.13	....
798.46	791.46	677.17	82.74	8,000.48	8,803.44	802.96	....
2,323.39	3,415.03	2,294.48	449.78	28,886.55	30,874.29	1,987.74	....
479.47	624.03	442.06	71.50	4,956.94	5,973,40	1,016.46	....
254.47	278.25	222.93	31.64	3,351.10	3,259.00	....	92.10
1,502.73	2,468.99	1,583.69	358.47	22,373.86	24,607.95	2,234.09	....
2,525.37	4,759.93	2,892.18	844.72	42,478.92	40,592.49	....	1,886.43
975.27	1,712.19	1,072.41	275.20	13,923.79	15,114.38	1,190.59	....
814.59	1,446.00	918.92	259.82	11,698.81	13,378.25	1,679.44	....
888.79	1,179.36	844.25	157.38	10,240.26	11,342.80	1,102.54	....
499.78	445.63	403.04	37.29	4,476.47	5,230.15	753.68	....
1,011.01	1,386.16	973.93	187.39	12,225.89	12,919.15	693.26	....
6,026.19	11,467.89	6,981.45	1,961.21	86,687.98	91,063.87	4,375.89	....
320.22	386.83	292.00	48.01	4,685.83	4,531.06	....	154.77
161.88	290.67	182.62	52.38	2,726.79	2,608.27	....	118.52
526.52	843.13	587.22	131.80	8,065.50	8,595.87	530.37	....
1,174.09	1,767.83	1,180.79	245.84	15,318.95	16,032.80	713.85	....
2,910.14	4,685.53	3,043.02	672.42	35,215.16	38,081.95	2,866.79	....

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under
received by the Commission from each Municipality on account of such
upon ascertainment (by annual adjustment) of the actual

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1930	To Oct. 31 1930				Operating, main-tenance and adminis-trative expenses	Interest
	$ c.	$ c.	$ c.		$ c.	$ c.	$ c.
Rockwood	......	45.00	29,256.02	95.8	291.73	1,397.95	1,334.47
Rodney	......	45.00	35,041.52	124.2	378.21	2,009.55	1,628.44
St. Catharines	......	21.50	1,398,663.38	8,592.2	26,164.92	34,972.72	68,061.77
St. Clair Beach	......	38.00	22,800.36	82.9	252.45	613.76	1,065.03
St. George	42.00	40.00	38,588.34	138.4	421.45	1,245.47	1,794.61
St. Jacobs	......	33.00	49,490.79	209.1	636.75	1,356.63	2,315.34
St. Marys	......	34.00	315,872.11	1,312.5	3,996.82	12,353.40	14,782.62
St. Thomas	......	28.00	1,090,744.19	5,416.4	16,493.98	29,307.27	51,652.72
Sandwich	......	30.00	856,980.35	3,570.4	10,872.56	22,939.18	40,468.96
Sarnia	......	34.00	1,646,960.25	6,483.0	19,741.99	45,250.78	77,151.36
Scarboro twp.	35.00	34.00	572,594.77	2,341.2	7,129.41	12,283.39	27,056.49
Seaforth	......	35.00	119,858.68	462.0	1,406.88	3,408.19	5,533.80
Simcoe	......	31.00	276,028.95	1,243.0	3,785.18	7,933.78	13,087.20
Springfield	......	46.00	33,439.73	95.1	289.60	955.10	1,539.19
Stamford twp.	......	21.00	232,914.47	1,571.2	4,784.61	6,022.42	11,474.75
Stouffville	50.00	47.00	48,971.97	145.7	443.68	1,580.72	2,269.87
Stratford	......	30.00	1,560,005.45	7,302.4	22,237.22	44,167.27	73,885.81
Strathroy	......	34.00	217,982.14	903.3	2,750.72	6,599.74	10,222.29
Sutton	......	55.00	49,268.80	146.3	445.51	3,636.26	2,284.21
Tavistock	......	34.00	116,264.47	453.5	1,381.00	3,724.08	5,438.53
Tecumseh	......	35.00	100,058.69	370.6	1,128.55	2,432.90	4,688.09
Thamesford	......	40.00	38,955.61	139.9	426.02	1,459.63	1,802.68
Thamesville	......	40.00	51,323.57	190.6	580.41	2,401.15	2,344.04
Thedford	70.00	68.00	28,239.45	55.0	167.49	1,124.84	1,284.18
Thorndale	......	62.00	21,447.05	47.2	143.73	1,089.73	964.14
Thorold	......	24.00	307,054.51	1,799.3	5,479.22	8,578.97	14,972.93
Tilbury	......	38.00	129,354.24	493.3	1,502.19	4,594.93	6,044.63
Tillsonburg	......	33.00	183,331.75	768.6	2,340.54	5,833.85	8,563.43
Toronto	......	26.10	50,259,779.43	246,766.0	751,450.14	1,030,035.00	2,392,660.09
Toronto twp.	33.00	32.00	294,214.89	1,260.4	3,838.17	9,154.34	13,428.77
Walkerville	......	28.00	1,853,053.90	8,549.3	26,034.27	39,773.31	87,814.25
Wallaceburg	......	35.00	510,844.71	1,896.7	5,775.82	14,361.14	23,798.89
Wardsville	......	65.00	12,197.23	27.6	84.05	588.11	550.27
Waterdown	32.00	31.00	50,454.02	227.4	692.48	1,365.84	2,371.26
Waterford	......	32.00	89,486.88	382.9	1,166.00	2,835.97	4,214.50
Waterloo	......	27.00	576,955.67	2,788.4	8,491.22	14,604.01	27,009.82
Watford	......	55.00	66,106.68	166.6	507.33	2,313.53	3,036.00
Welland	......	23.00	618,606.19	3,873.6	11,795.86	18,142.18	30,095.34
Wellesley	......	45.00	39,009.45	112.2	341.67	1,100.81	1,780.36
West Lorne	......	38.00	80,978.29	318.3	969.28	3,695.76	3,771.87

SYSTEM *COST OF POWER*

the Power Commission Act) of Power supplied to it by the Commission, the amount cost; and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1930

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
319.18	429.42	302.08	55.82	4,130.65	4,309.48	178.83	....
375.68	518.65	365.76	72.37	5,348.66	5,588.23	239.57	....
11,221.26	24,504.40	14,565.09	5,006.56	184,496.72	184,731.67	234.95	....
236.48	351.91	237.86	48.30	2,805.79	3,151.44	345.65	....
413.46	586.66	403.15	80.65	4,945.45	5,580.98	635.53	....
484.25	803.91	511.51	121.84	6,230.23	6,901.33	671.10	....
3,078.04	5,200.77	3,300.07	764.78	43,476.50	44,625.82	1,149.32	....
9,822.61	18,582.69	11,344.98	3,156.08	140,360.33	151,659.12	11,298.79	....
8,324.78	13,803.12	8,938.23	2,080.42	107,427.25	107,112.00	....	315.25
16,573.12	26,338.92	17,206.57	3,777.58	206,040.32	220,422.95	14,382.63	....
5,308.53	8,874.50	5,978.83	1,364.19	67,995.34	80,008.96	12,013.62	....
1,235.24	1,829.78	1,252.96	269.20	14,936.05	16,168.45	1,232.40	....
2,655.47	4,460.23	2,878.06	724.28	35,524.20	38,533.50	3,009.30	....
386.79	451.61	349.65	55.41	4,027.35	4,372.63	345.28	....
1,737.94	4,241.00	2,425.57	915.52	31,601.81	32,995.34	1,393.53	....
531.70	651.55	513.41	84.90	6,075.83	6,923.21	847.38	....
14,507.11	26,317.50	16,282.29	4,255.01	201,652.21	219,070.70	17,418.49	....
2,185.28	3,346.79	2,276.12	526.34	27,907.28	30,711.88	2,804.60	....
534.04	649.66	515.64	85.25	8,150.57	8,046.01	....	104.56
1,191.64	1,852.49	1,215.26	264.25	15,067.25	15,418.95	351.70	....
1,027.81	1,556.29	1,042.70	215.94	12,092.28	12,970.07	877.79	....
416.05	584.85	407.00	81.52	5,177.75	5,594.62	416.87	....
517.11	790.20	524.10	111.06	7,268.07	7,622.62	354.55	....
355.85	345.25	297.09	32.05	3,606.75	3,757.85	151.10	....
263.71	264.09	223.89	27.50	2,976.79	2,924.81	....	51.98
2,561.58	5,383.35	3,198.71	1,048.43	41,223.19	43,183.18	1,959.99	....
1,330.96	2,050.42	1,351.26	287.44	17,161.83	18,747.18	1,585.35	....
1,829.63	2,806.71	1,913.59	447.85	23,735.60	25,363.16	1,627.56	....
408,139.42	807,241.66	523,902.87	143,787.27	6,057,216.45	6,440,591.27	383,374.82	....
2,729.82	4,666.59	2,953.67	734.42	37,505.78	40,545.26	3,039.48	....
16,975.27	30,632.95	19,325.78	4,981.56	225,537.39	239,379.09	13,841.70	....
5,319.79	7,889.72	5,337.54	1,105.18	63,588.08	66,383.26	2,795.18	....
146.48	155.39	126.15	16.08	1,666.53	1,796.12	129.59	....
489.96	823.80	527.01	132.50	6,402.85	7,087.70	684.85	....
884.86	1,470.26	933.50	223.11	11,728.20	12,253.31	525.11	....
5,212.37	9,679.03	5,946.87	1,624.76	72,568.08	75,287.46	2,719.38	....
785.87	904.79	694.87	97.08	8,339.47	9,162.06	822.59	....
4.948.72	10,970.90	6,447.02	2,257.10	84,657.12	89,092.90	4,435.78	....
450.64	528.05	408.40	65.38	4,675.31	5,050.47	375.16	....
830.42	1,262.94	844.44	185.47	11,560.18	12,093.46	533.28	....

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under received by the Commission from each Municipality on account of such upon ascertainment (by annual adjustment) of the actual

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1930	To Oct. 31 1930				Operating, maintenance and administrative expenses	Interest
	$ c.	$ c.	$ c.		$ c.	$ c.	$ c.
Weston	......	28.00	585,459.25	2,944.5	8,966.57	15,370.19	27,868.26
Wheatley	......	45.00	44,842.46	130.4	397.09	1,506.93	2,177.91
Windsor	......	28.00	5,496,610.43	25,371.4	77,260.81	114,864.84	260,480.14
Woodbridge	......	36.00	66,140.20	256.8	782.01	1,911.05	2,999.04
Woodstock	......	27.00	944.392.28	4,933.8	15,024.37	24,392.82	45,100.48
Wyoming	......	54.00	21,630.42	53.8	163.83	893.03	985.53
York East twp.	35.00	33.00	863,593.63	4,211.8	12,825.74	40,757.42	41,440.71
York North twp.	......	32.00	369,306.06	1,597.2	4,863.78	12,074.60	17,542.43
Zurich	......	62.00	41,950.89	88.3	268.89	1,466.52	1,824.95
Sandwich, Windsor and Amherstburg Railway			778,198.38	3,508.7	10,684.67	16,882.15	37,062.94
Windsor, Essex and Lake Shore Railway			180,284.86	542.7	1,652.63	3,826.69	7,671.99
Toronto Transportation Comm.			360,754.00	1,418.5	4,319.61	16,649.82	16,512.15
North York Radial Railway			42,256.73	187.5	570.97	1,504.69	2,023.07
RURAL POWER DISTRICT							
Acton R.P.D.—Esquesing twp.			487.88	2.0	6.09	17.70	22.71
Ailsa Craig R.P.D.—Lobo twp.			23.34	0.1	0.30	0.77	1.46
Alvinston R. P. D. — Brooke twp			880.97	1.2	3.65	30.40	40.08
Amherstburg R.P.D. — Anderdon, Malden, Colchester N., and Colchester S. twps.			130,586.91	495.3	1,508.29	4,357.74	6,117.58
Aylmer R.P.D. — Dorchester S., Malahide, Yarmouth, Bayham, Dorchster N., and Dereham twps			51,973.85	192.2	585.28	1,572.57	2,426.30
Ayr R.P.D. — Dumfries N., Dumfries S. and Blenheim twps			4,838.43	20.8	63.34	212.30	228.37
Baden R.P.D.—Wilmot, Zorra E., Easthope S., Easthope N., Wellesley, Waterloo, Blenheim twps			51,675.18	210.9	642.23	1,478.78	2,436.83
Beamsville R.P.D.—Grimsby N., Grimsby S., Caistor, Gainsboro, Clinton, Louth, Pelham and Wainfleet twps.			185,323.66	775.4	2,361.25	7,651.03	8,750.47
Belle River R.P.D.—Maidstone and Rochester twps			59,421.25	235.1	715.93	1,687.20	2,785.33
Blenheim R.P.D.—Raleigh and Harwich twps			30,019.66	108.5	330.40	867.32	1,407.19
Bond Lake R.P.D.—King, Vaughan, Markham, Whitchurch and York N. twps			131,274.89	557.2	1,696.78	5,490.12	6,217.21

SYSTEM *COST OF POWER*

the Power Commission Act) of Power supplied to it by the Commission, the amount cost; and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1930

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
5,193 65	9,718.85	6,099.60	1,715.72	74,932.84	82,445.74	7,512.90	....
541.90	654.18	493.43	75.98	5,847.42	5,865.72	18.30	....
50,335.50	90,863.91	57,323.26	14,783.60	665,912.06	712,882.07	46,970.01	....
651.85	1,021.15	671.60	149.63	8,186.33	9,243.15	1,056.82	....
8,257.98	16,237.58	9,836.02	2,874.88	121,724.13	133,212.00	11,487.87	....
256.71	289.91	226.45	31.35	2,846.81	2,903.40	56.59	....
7,052.52	13,841.20	9,002.62	2,454.16	127,374.37	140,422.00	13,047.63	....
3,326.77	5,792.41	3,844.94	930.67	48,375.60	51,111.15	2,735.55	....
496.68	495.88	421.21	51.45	5,025.58	5,476.63	451.05	....
7,232.17	12,764.79	8,117.77	2,044.47	94,788.96	94,788.96	....	....
1,757.97	2,292.97	1,704.43	316.22	19,222.90	19,222.90	....	....
3,543.84	5,392.52	3,764.83	826.54	51,009.31	51,358.74	349.43	....
369.75	660.00	439.93	109.25	5,677.66	6,186.62	508.96	....
4.83	7.67	5.02	1.17	65.19	65.19	see page	177
0.23	0.40	0.33	0.06	3.55	3.55	"	"
11.74	9.83	9.27	0.70	105.67	105.67	"	"
1,332.17	2,041.98	1,364.43	288.60	17,010.79	17,010.79	"	"
546.36	793.97	541.43	111.99	6,577.90	6,577.90	"	"
47.41	77.80	50.26	12.13	691.61	691.61	"	"
522.18	830.00	539.61	122.88	6,572.51	6,572.51	"	"
1,893.98	2,812.12	1,933.12	451.82	25,853.79	25,853.79	"	"
591.83	945.17	619.22	136.99	7,481.67	7,481.67	"	"
316.27	465.64	313.72	63.22	3,763.76	3,763.76	"	"
1,188.39	2,014.07	1,370.28	324.67	18,301.52	18,301.52	"	"

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under received by the Commission from each Municipality on account of such upon ascertainment (by annual adjustment) of the actual

Rural Power Districts	Share of capital cost of which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating maintenance and administrative expenses	Interest
	$ c.		$ c.	$ c.	$ c.
Bothwell R.P.D.—Ekfrid, Zone, Orford, Aldborough and Mosa twps.	32,757.79	108.7	331.01	1,336.03	1,559.82
Brampton R.P.D.—Chinguacousy and Toronto twps.	21,059.55	97.5	296.91	985.43	1,005.54
Brant R.P.D.—Brantford, Burford, Blenheim, Dumfries S., Onondaga and Oakland twps.	76,893.65	358.0	1,090.17	3,210.34	3,664.82
Brigden R.P.D.—Moore and Sombra twps.	12,979.68	26.7	81.31	561.93	604.15
Burford R.P.D.—Burford, Brantford, Oakland, Townsend and Windham twps.	21,413.24	86.0	261.89	649.11	999.60
Caledonia R.P.D.—Ancaster, Seneca, Glanford, Oneida, Binbrook, Caistor, Grimsby S. and Barton twps.	35,383.18	155.5	473.53	1,116.25	1,681.45
Chatham R.P.D.—Dover E., Chatham, Raleigh and Harwich twps.	89,922.59	400.1	1,218.38	2,617.02	4,269.69
Chippawa R.P.D.—Willoughby, and Bertie twps.	16,943.85	99.1	301.78	752.79	810.18
Clinton R.P.D.—Goderich, Stanley, Tuckersmith and Hay twps.	26,805.93	83.3	253.66	935.09	1,253.41
Delaware R.P.D.—Delaware, Westminister, Caradoc, Ekfrid, Lobo and London twps.	49,120.30	210.7	641.62	1,553.03	2,316.33
Dorchester R.P.D.—London, Nissouri W., Nissouri E., Oxford N., Dorchester N., Dorchester S., Westminster and Yarmouth twps.	73,834.86	288.4	878.23	2,462.88	3,399.97
Dresden R.P.D.—Camden and Chatham Gore twps.	2,714.18	8.9	27.10	92.10	127.36
Drumbo R.P.D.—Blenheim, Burford and Blandford twps.	24,696.03	72.0	219.26	1,572.69	1,125.75
Dundas R.P.D.—Flamboro W., Beverly, Ancaster, Flamboro E. and Nelson twps.	78,146.89	390.8	1,190.07	1,665.10	3,730.47
Dunnville R.P.D.—Moulton twp.	887.47	4.0	12.18	47.55	37.04
Dutton R.P.D.—Dunwich and Aldboro twps.	23,180.75	92.4	281.37	998.62	1,098.19
Elmira R.P.D.—Woolwich, Peel and Pilkington twps.	6,495.49	25.5	77.65	217.59	303.74
Elora R.P.D.—Pilkington, Nichol, Garafraxa W. and Peel twps.	16,697.61	66.5	202.51	843.12	776.49
Essex R.P.D.—Sandwich S., Maidstone, Rochester, Colchester N., Gosfield N., Gosfield S. and Mersea twps.	48,745.03	195.8	596.25	1,245.72	2,295.57
Exeter R.P.D.—Hay, Stephen, Usborne, Tuckersmith, Biddulph and Bosanquet twps.	65,220.83	203.2	618.78	1,810.26	2,955.29

SYSTEM *COST OF POWER*

the Power Commission Act) of Power supplied to it by the Commission, the amount cost; and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1930

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c
367.90	496.23	350.12	63.34	4,504.45	4,504.45	see page	177
198.78	342.42	219.59	56.81	3,105.48	3,105.48	"	"
725.63	1,291.86	801.40	208.61	10,992.83	10,992.83	"	"
164.96	168.82	138.74	15.56	1,735.47	1,735.47	"	"
214.12	344.50	220.47	50.11	2,739.80	2,739.80	"	"
347.60	571.53	369.20	90.60	4,650.16	4,650.16	"	"
854.61	1,490.64	938.09	233.13	11,621.56	11,621.56	"	"
142.80	300.88	176.28	57.74	2,542.45	2,542.45	"	"
300.64	392.98	280.62	48.54	3,464.94	3,464.94	"	"
483.92	794.87	512.00	122.77	6,425.34	6,425.34	"	"
744.25	1,144.73	759.38	168.05	9,557.49	9,557.49	"	"
29.69	40.14	28.35	5.18	349.92	349.92	"	"
279.88	332.97	255.22	41.95	3,827.72	3,827.72	"	"
710.59	1,340.89	813.44	227.71	9,678.27	9,678.27	"	"
6.97	13.13	7.98	2.33	127.18	127.18	see page	179
236.15	364.59	241.67	52.83	3,274.42	3,274.42	"	"
65.98	103.01	67.24	14.86	850.07	850.07	"	"
168.85	256.82	172.72	38.74	2,459.25	2,459.25	"	"
481.98	779.54	508.05	114.09	6,021.20	6,021.20	"	"
709.59	899.37	665.04	118.41	7,776.74	7,776.74	"	"

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under received by the Commission from each Municipality on account of such upon ascertainment (by annual adjustment) of the actual

Rural Power Districts	Share of capital cost of which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating maintenance and administrative expenses	Interest
	$ c.		$ c.	$ c.	$ c.
Forest, R.P.D.—Plympton, Warwick, Bosanquet, Williams W. and Adelaide twps.	3,433.23	10.2	31.06	112.72	160.37
Galt R.P.D.—Dumfries N., Dumfries S. and Beverly twps.	25,618.11	122.1	371.82	1,413.30	1,221.80
Georgetown R.P.D.—Esquesing and Chinguacousy twps.	18,589.20	70.4	214.38	660.48	869.33
Goderich R.P.D.—Colborne, Goderich, Ashfield and Wawanosh W. twps.	16,896.47	49.4	150.43	445.04	758.80
Grantham R.P.D.—Grantham and Niagara twps.	81,880.14	444.5	1,353.58	2,177.35	3,823.70
Guelph R.P.D.—Eramosa, Nassagaweya, Guelph and Puslinch twps.	48,929.92	231.1	703.75	2,047.28	2,329.32
Haldimand R.P.D.—Seneca, Walpole, Rainham, Cayuga N. and Oneida twps.	37,734.04	131.0	398.92	1,232.20	1,772.30
Harriston R.P.D.—Minto and Howick twps.	658.82	2.3	7 00	40.10	32.37
Harrow R.P.D.—Colchester S., Malden, Colchester N. and Gosfield S. twps.	83,510.30	302.3	920.57	2,095.51	3,726.84
Ingersoll R.P.D.—Zorra E., Dorchester N., Dereham, Oxford N., Nissouri E., Zorra W. and Oxford W. twps.	75,852.87	308.8	940.36	2,276.78	3,600.05
Jordan R.P.D.—Louth, Thorold, Pelham and Grantham twps.	46,663.64	226.9	690.95	1,014.21	2,027.28
Keswick R.P.D.—Georgina, Gwillimbury N. and Gwillimbury E. twps.	77,599.46	286.0	870.93	5,055.57	3,644.74
Kingsville R.P.D.—Gosfield N., Gosfield S., Mersea and Romney twps.	128,004.44	464.3	1,413.88	3,300.30	5,804.02
Listowel R.P.D.—Wallace, Elma and Grey twps.	21,521.90	81.8	249.10	756.01	991.87
London R.P.D.—Westminster, Delaware, London and Nissouri W. twps.	276,545.91	1,247.1	3,797.66	7,289.96	13,126.25
Lucan R.P.D.—Stephen, London, McGillivray, and Biddulph twps.	13,736.53	55.6	169.31	425.61	647.72
Lynden R.P.D.—Beverly, Ancaster, Brantford and Dumfries S. twps.	35,016.43	126.6	385.52	1,073.33	1,638.57
Markham R.P.D.—Markham, Scarboro, Pickering and Whitchurch twps.	68,118.64	263.4	802.10	1,773.19	3,217.47
Merlin R.P.D.—Romney, Tilbury E. and Raleigh twps.	40,378.11	123.9	377.30	1,222.04	1,887.56
Milton R.P.D.—Nassagaweya, Esquesing, Trafalgar and Nelson twps.	24,006.75	102.7	312.74	764.68	1,139.24
Milverton R.P.D.—Mornington and Elma twps.	10,690.83	41.3	125.77	351.86	500.78
Mitchell R.P.D.—Hibbert, Fullarton, Downie, Ellice, Logan and Elma twps.	39,323.94	143.8	437.89	1,109.28	1,848.61
Newmarket R.P.D.—Gwillimbury E., King, Whitchurch and Scott twps.	53,927.12	211.9	645.28	1,537.45	2,538.49
Niagara R.P.D.—Niagara twp.	91,485.00	556.3	1,694.04	3,230.28	4,461.12

the Power Commission Act) of Power supplied to it by the Commission, the amount cost; and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1930

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
38.91	49.76	36.07	5.94	434.83	434.83	see page	179
238.32	432.32	267.11	71.15	4,015.82	4,015.82	“	“
193.14	281.27	192.91	41.02	2,452.53	2,452.53	“	“
185.23	225.90	171.29	28.78	1,965.47	1,965.47	“	“
685.34	1,372.52	827.09	259.00	10,498.58	10,498.58	“	“
452.57	811.15	505.90	134.66	6,984.63	6,984.63	“	“
410.66	549.40	393.74	76.33	4,833.55	4,833.55	“	“
7.51	10.06	7.19	1.34	105.57	105.57	“	“
801.27	1,229.38	824.47	176.14	9,774.18	9,774.18	“	“
767.49	1,205.13	791.85	179.94	9,761.60	9,761.60	“	“
370.29	726.06	436.54	132.21	5,397.54	5,397.54	“	“
763.26	1,120.75	810.95	166.65	12,432.85	12,432.85	“	“
1,280.93	1,923.39	1,301.59	270.54	15,294.65	15,294.65	“	“
215.22	330.66	219.63	47.66	2,810.15	2,810.15	“	“
2,645.55	4,590.58	2,881.64	726.67	35,058.31	35,058.31	“	“
139.18	216.60	143.37	32.40	1,774.19	1,774.19	“	“
377.75	516.71	367.10	73.77	4,432.75	4,432.75	“	“
655.81	1,018.26	713.77	153.48	8,334.08	8,334.08	“	“
452.62	586.78	422.46	72.19	5,020.95	5,020.95	see page	181
236.74	374.33	250.51	59.84	3,138.08	3,138.08	“	“
108.63	169.20	110.75	24.06	1,391.05	1,391.05	“	“
414.73	630.68	411.23	83.79	4,936.21	4,936.21	“	“
509.75	820.01	561.69	123.47	6,736.14	6,736.14	“	“
750.62	1,609.35	953.76	324.16	13,023.33	13,023.33	“	“

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under received by the Commission from each Municipality on account of such upon ascertainment (by annual adjustment) of the actual

Rural Power Districts	Share of capital cost of which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating maintenance and administrative expenses	Interest
	$ c.		$ c.	$ c.	$ c.
Norwich R.P.D.—Norwich N., Norwich S., Dereham, Oxford E., Burford, Windham and Middleton twps.	46,792.73	198.9	605.69	1,534.47	2,183.15
Oil Springs R.P.D.—Enniskillen, Dawn and Brooke twps.	13,455.05	39.9	121.50	444.52	622.98
Palmerston, R.P.D.—Maryborough, Peel, Arthur, Wallace and Minto twps.	2,734.38	9.8	29.84	103.62	126.23
Petrolia R.P.D.—Sarnia, Plympton, Enniskillen and Moore twps.	5,949.27	20.4	62.12	213.56	279.00
Preston R.P.D.—Waterloo, Puslinch, Dumfries N. and Woolwich twps.	155,194.88	703.7	2,142.90	4,216.76	7,114.26
Ridgetown R.P.D.—Howard, Orford, Harwich, Aldborough and Rondeau Park twps.	82,173.03	255.7	778.66	2,911.51	3,815.34
St. Jacobs R.P.D.—Wellesley, Woolwich and Waterloo twps.	42,816.29	180.9	550.88	1,032.59	1,999.27
St. Marys R.P.D.—Fullarton, Usborne, Blanshard and Downie twps.	48,686.12	166.4	506.72	1,423.42	2,286.88
St. Thomas R.P.D.—Southwold, Yarmouth, Westminster, and Dunwich twps.	90,167.91	394.5	1,201.33	2,399.78	4,253.75
Saltfleet R.P.D.—Saltfleet, Barton, Binbrook and Grimsby N. twps.	146,528.87	587.9	1,790.27	3,190.24	6,876.47
Sandwich R.P.D.—Sandwich W., Sandwich E., Sandwich S., Maidstone, Anderdon and Colchester N. twps.	224,173.54	936.1	2,850.60	5,405.93	10,448.32
Sarnia R.P.D.—Sarnia, Moore and Plympton twps.	118,824.03	445.8	1,357.55	5,075.89	5,576.28
Scarboro R.P.D.—Scarboro, Pickering and York North twps.	48,474.41	198.2	603.56	966.72	2,295.93
Seaforth R.P.D.—Tuckersmith, McKillop and Hibbert twps.	9,619.99	34.5	105.06	261.76	451.90
Simcoe R.P.D.—Woodhouse, Charlotteville, Windham and Townsend twps.	28,031.24	126.5	385.22	942.00	1,331.46
Stamford R.P.D.—Thorold twp.	24,911.07	165.6	504.28	1,355.47	1,226.33
Stratford R.P.D.—Ellice, Downie, Easthope N. and Easthope S. twps.	32,999.43	153.3	466.83	952.50	1,563.46
Strathroy R.P.D.—Adelaide, Metcalfe, Ekfrid and Caradoc twps.	8,414.28	35.1	106.89	419.94	398.85
Streetsville RP.D.—Toronto, Trafalgar, Esquesing and Chinguacousy twps.	126,823.86	531.2	1,617.61	3,890.08	5,917.87
Tavistock R.P.D.—Easthope N., Easthope S. and Zorra twps.	31,336.87	125.3	381.56	1,090.97	1,478.66
Thamesville R.P.D.—Camden, Euphemia, Zone, Orford, Howard, Chatham and Harwich twps.	19,541.47	72.6	221.09	731.17	903.32
Tilbury R.P.D.—Dover W., Tilbury E., Tilbury W. and Tilbury N. twps.	33,523.39	121.7	370.60	1,024.36	1,577.89

SYSTEM *COST OF POWER*

the Power Commission Act) of Power supplied to it by the Commission, the amount cost; and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1930

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
463.66	742.04	488.30	115.90	6,133.21	6,133.21	see page	181
151.70	203.46	140.78	23.25	1,708.19	1,708.19	"	"
28.13	40.92	27.93	5.71	362.38	362.38	"	"
63.77	91.34	62.31	11.89	783.99	783.99	"	"
1,400.96	2,538.44	1,558.86	410.05	19,382.23	19,382.23	"	"
917.26	1,189.26	860.03	148.99	10,621.05	10,621.05	"	"
418.94	695.47	442.52	105.41	5,245.08	5,245.08	"	"
523.36	792.43	509.36	96.96	6,139.13	6,139.13	"	"
876.28	1,505.47	939.23	229.87	11,405.71	11,405.71	"	"
1,507.34	2,289.99	1,531.42	342.56	17,528.29	17,528.29	"	"
2,136.48	3,613.07	2,311.07	545.45	27,310.92	27,310.92	"	"
1,222.36	1,885.98	1,241.27	259.76	16,619.09	16,619.09	"	"
449.42	751.28	506.16	115.49	5,688.56	5,688.56	"	"
102.28	147.09	100.61	20.11	1,188.81	1,188.81	"	"
269.34	456.02	292.26	73.71	3,750.01	3,750.01	"	"
188.61	452.41	259.46	96.49	4,083.05	4,083.05	"	"
308.31	556.23	344.45	89.33	4,281.11	4,281.11	"	"
84.07	130.00	87.86	20.45	1,248.06	1,248.06	"	"
1,222.42	2,033.62	1,294.26	309.53	16,285.39	16,285.39	see page	183
317.45	503.02	327.49	73.01	4,172.16	4,172.16	"	"
197.32	301.22	199.89	42.30	2,596.31	2,596.31	"	"
351.42	516.09	350.19	70.91	4,261.46	4,261.46	"	"

NIAGARA

Statement showing the amount to be paid by each Municipality as the Cost (under received by the Commission from each Municipality on account of such upon ascertainment (by annual adjustment) of the actual

Rural Power Districts	Share of capital cost of which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
				Operating maintenance and administrative expenses	Interest
	$ c.		$ c.	$ c.	$ c.
Tillsonburg R.P.D.—Norwich S., Bayham, Dorchester S., Malahide, Houghton, Dereham, Middleton and Norwich N. twps.	67,016.65	254.5	775.00	2,321.00	3,118.56
Wallaceburg R.P.D.—Dover E., Chatham and Sombra twps.	45,244.67	160.1	487.54	1,178.25	2,039.14
Walsingham R.P.D.—Walsingham N., Walsingham S., Charlotteville, Windham and Middleton twps.	29,226.00	57.3	174.49	809.55	1,335.63
Walton R.P.D. — Wawanosh W., Wawanosh E., Morris, Grey, Hullett and McKillop twps.	22,664.86	58.2	177.23	644.49	1,046.37
Waterdown R.P.D. — Flambor E., Flamboro W. and Nelson twps.	93,008.47	412.6	1,256.45	2,423.36	4,430.11
Waterford R.P.D.—Windham and Townsend twps.	23,990.16	101.8	310.00	736.65	1,134.12
Watford R.P.D. — Warwick, Adelaide and Metcalfe twps.	1,522.75	4.9	14.92	45.23	71.66
Welland R.P.D.—Bertie, Pelham, Thorold, Crowland, Wainfleet and Humberstone twps.	195,973.24	1,016.2	3,094.53	8,060.34	9,202.41
Woodbridge R.P.D. — York North, Toronto, Vaughan, Etobicoke, Toronto Gore, Albion, King and Chinguacousy twps.	132,741.40	498.8	1,518.95	3,612.04	6,120.18
Woodstock R.P.D.—Oxford W., Oxford N., Oxford E., Burford, Blenheim, Blandford, Zorra W. and Zorra E. twps.	91,535.65	432.0	1,315.52	2,818.61	4,340.70
Totals—Municipalities.	114,899,201.67	558,276.7	1,700,060.38	2,731,913.63	5,460,418.26
Totals—Rural Power Districts.	4,734,622.68	19,675.9	59,916.93	151,679.89	221,783.47
Totals—Companies.	48,995,980.27	289,854.3	884,938.76	1,301,776.85	2,387,364.99
	168,629,804.62				
Non-operating capital.	2,623,160.88				
Grand total.	171,252,965.50	867,806.9	2,644,916.07	4,185,370.37	8,069,566.72

SYSTEM *COST OF POWER*

the Power Commission Act) of Power supplied to it by the Commission, the amount cost; and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1930

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
700.48	1,024.01	700.08	148.29	8,787.42	8,787.42	see page	183
458.79	679.54	457.39	93.29	5,393.94	5,393.94	"	"
369.94	355.52	306.43	33.39	3,384.95	3,384.95	"	"
269.09	302.14	237.50	33.91	2,710.73	2,710.73	"	"
910.95	1,499.66	971.64	240.42	11,732.59	11,732.59	"	"
237.59	393.02	249.81	59.31	3,120.50	3,120.50	"	"
16.89	21.90	15.96	2.85	189.41	189.41	"	"
1,734.86	3,204.08	2,002.09	592.13	27,890.44	27,890.44	"	"
1,348.61	2,001.47	1,362.37	290.64	16,254.26	16,254.26	"	"
855.74	1,554.45	954.38	251.72	12,091.12	12,091.12	"	"
999,663.26	1,882,693.81	1,196,757.16	325,300.44	14,296,806.94	15,123,855.95	839,016.71	11,967.70
46,495.62	74,739.46	49,009.06	11,464.86	615,039.29	615,089.29		
392,835.83	852,619.88	504,454.79	(336,765.30)	5,987,225.80	5,987,225.80		
1,438,994.71	2,810,053.15	1,750,221.01	....	20,899,122.03	21,726,171.04	....	....

NIAGARA SYSTEM—

Statement showing the costs of distribution of power within each Rural Power the amounts remaining to be credited to certain districts or charged to the adjustment) of the actual costs in the

Districts and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	$ c.	$ c.	$ c.	$ c.
Acton R.P.D.—Esquesing twp.	2,860.15	1,430.07	1,430.08	65.19
Ailsa Craig R.P.D.—Lobo twp.	1,029.99	514.99	515.00	3.55
Alvinston R.P.D.—Brooke twp.	2,941.70	1,470.85	1,470.85	105.67
Amherstburg R.P.D.—Anderdon, Malden, Colchester N., and Colchester S. twps.	104,998.74	52,413.87	52,584.87	17,010.79
Aylmer R.P.D.—Dorchester S., Malahide, Yarmouth, Bayham, Dorchester N., and Dereham twps.	*162,120.18	79,803.71	82,316.47	6,577.90
Ayr R.P.D.—Dumfries N., Dumfries S., and Blenheim twps.	*23,513.43	11,719.36	11,794.07	691.61
Baden R.P.D.—Wilmot, Zorra E., Easthope S., Easthope N., Wellesley, Waterloo, and Blenheim twps.	*130,151.15	64,860.79	65,290.36	6,572.51
Beamsville R.P.D.—Grimsby N., Grimsby S., Caistor, Gainsboro, Clinton, Louth, Pelham, and Wainfleet twps.	262,776.24	131,132.90	131,643.34	25,853.79
Belle River R.P.D.—Maidstone and Rochester twps.	76,693.14	38,346.57	38,346.57	7,481.67
Blenheim R.P.D.—Raleigh and Harwich twps.	*86,245.98	42,184.49	44,061.49	3,763.76
Bond Lake R.P.D.—King, Vaughan, Markham, Whitchurch and York N. twps.	*241,783.37	120,105.92	121,677.45	18,301.52
Bothwell R.P.D.—Ekfrid, Zone, Orford, Aldborough and Mosa twps.	*49,504.12	24,378.52	25,125.60	4,504.45
Brampton R.P.D.—Chinguacousy and Toronto twps.	72,399.06	36,199.53	36,199.53	3,105.48
Brant R.P.D.—Brantford, Burford, Blenheim, Dumfries S., Onondaga and Oakland twps.	*158,699.99	78,016.74	80,683.25	10,992.83
Brigden R.P.D.—Moore and Sombra twps.	45,312.09	22,656.05	22,656.04	1,735.47
Burford R.P.D.—Burford, Brantford, Oakland, Townsend and Windham twps.	62,576.20	31,288.10	31,288.10	2,739.80
Caledonia R.P.D.—Ancaster, Seneca, Glanford, Oneida, Binbrook, Caistor, Grimsby S., and Barton twps.	122,164.78	61,082.39	61,082.39	4,650.16
Chatham R.P.D.—Dover E., Chatham, Raleigh, and Harwich twps.	204,624.43	102,312.22	102,312.21	11,621.56
Chippawa R.P.D.—Willoughby and Bertie twps.	38,106.77	19,053.38	19,053.39	2,542.45
Clinton R.P.D.—Goderich, Stanley, Tuckersmith and Ray twps.	87,014.01	42,788.66	44,225.35	3,464.94
Delaware R.P.D.—Delaware, Westminster, Caradoc, Ekfried, Lobo and London twps.	*191,168.42	94,184.46	96,983.96	6,425.34
Dorchester R.P.D.—London, Nissouri W., Nissouri E., Oxford N., Dorchester N., Dorchester S., Westminster and Yarmouth twps.	*183,798.91	90,939.29	92,859.62	9,557.49
Dresden R.P.D.—Camden and Chatham Gore twps.	24,631.91	12,315.95	12,315.96	349.92
Drumbo R.P.D.—Blenheim, Burford and Blandford twps.	*72,740.20	35,381.82	37,358.38	3,827.72
Dundas R.P.D.—Flamboro W., Beverly, Ancaster, Flamboro E., and Nelson twps.	166,566.07	83,092.26	83,473.81	9,678.27

Note.—Items marked * include portions of transmission lines used for purposes of rural

RURAL POWER DISTRICTS *RURAL OPERATING*

District, the revenues collected from (or charged to) customers within each district, and Municipalities comprising certain other districts upon ascertainment (by annual year ending October 31, 1930

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, mainten-ance and adminis-tration	Interest on capital invest-ment	Renewal charges	Obsoles-cence and contin-gencies	Sinking fund			Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
99.77	63.34	57.10	28.55	15.03	328.98	313.60	....	15.38
2.98	1.91	1.72	0.86	0.45	11.47	14.80	3.33	....
12.22	26.57	23.95	11.98	6.31	186.70	267.07	80.37	....
5,656.86	2,252.07	2,026.82	1,013.41	534.46	28,494.41	33,910.77	5,416.36	....
5,902.78	3,195.20	2,831.40	1,415.70	758.29	20,681.27	23,594.62	2,913.35	....
471.69	454.81	408.52	204.26	107.94	2,338.83	2,561.61	222.78	....
6,401.31	2,516.81	2,260.32	1,130.16	597.29	19,478.40	17,103.80	....	2,374.60
9,412.16	5,258.61	4,730.43	2,365.21	1,247.98	48,868.18	57,666.65	8,798.47	....
3,316.00	1,610.08	1,451.49	725.74	382.10	14,967.08	20,172.50	5,205.42	....
4,557.66	1,818.19	1,601.74	800.87	431.49	12,973.71	14,736.77	1,763.06	....
11,763.03	4,702.59	4,207.96	2,103.98	1,116.02	42,195.10	48,979.35	6,784.25	....
2,169.81	1,016.79	902.83	451.42	241.31	9,286.61	10,216.05	929.44	....
2,968.43	1,575.22	1,420.06	710.03	373.83	10,153.05	9,233.45	....	919.60
4,396.52	3,301.29	2,922.78	1,461.39	783.46	23,858.27	24,431.67	573.40	....
1,005.87	811.30	731.39	365.69	192.54	4,842.26	4,204.04	....	638.22
1,418.71	876.89	790.52	395.30	208.10	6,429.32	7,365.93	936.61	....
2,894.50	2,151.90	1,939.94	969.97	510.69	13,117.16	14,117.86	1,000.70	....
8,482.21	4,250.50	3,831.83	1,915.91	1,008.73	31,110.74	35,537.93	4,427.19	....
1,561.30	840.26	757.49	378.75	199.41	6,279.66	6,846.45	566.79	....
3,086.55	1,807.47	1,600.70	800.35	428.95	11,188.96	10,567.52	....	621.44
7,353.74	3,831.87	3,398.44	1,699.22	909 38	23,617.99	25,692.57	2,074.58	....
6,670.38	3,965.28	3,536.29	1,768.14	941.04	26,438.62	27,613.19	1,174.57	....
311.82	258.90	233.40	116.70	61.44	1,332.18	1,192.88	....	139.30
2,055.38	1,431.95	1,251.37	625.69	339.83	9,531.94	8,992.67	....	539.27
4,106.58	3,442.66	3,097.12	1,548.57	817.02	22,690.22	27,629.88	4,939.66	....

power districts.

NIAGARA SYSTEM—

Statement showing the costs of distribution of power within each Rural Power the amounts remaining to be credited to certain districts or charged to the adjustment) of the actual costs in the

Districts and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	$ c.	$ c.	$ c.	$ c.
Dunnville R.P.D.—Moulton twp.	14,011.56	7,005.78	7,005.78	127.18
Dutton R.P.D.—Dunwich and Aldboro twps.	46,758.56	23,379.28	23,379.28	3,274.42
Elmira R.P.D.—Woolwich, Peel and Pilkington twps.	20,230.57	10,115.29	10,115.28	850.07
Elora R.P.D.—Pilkington, Nichol, Garafraxa W. and Peel twps.	39,227.36	19,613.68	19,613.68	2,459.25
Essex R.P.D.—Sandwich S., Maidstone, Rochester, Colchester N., Gosfield N., Gosfield S., and Mersea twps.	*118,571.00	58,420.32	60,150.68	6,021.20
Exeter R.P.D.—Hay, Stephen, Usborne, Tuckersmith, Biddulph and Bosanquet twps.	*115,772.55	57,331.57	58,440.98	7,776.74
Forest R.P.D.—Plympton, Warwick, Bosanquet, Williams W., and Adelaide twps.	*32,907.43	16,149.05	16,758.38	434.83
Galt R.P.D.—Dumfries N., Dumfries S., and Beverly twps.	56,313.50	28,156.75	28,156.75	4,015.82
Georgetown R.P.D.—Esquesing and Chinguacousy twps.	64,269.67	32,134.84	32,134.83	2,452.53
Goderich R.P.D.—Colborne, Goderich, Ashfield and Wawanosh W. twps.	12,703.23	6,351.62	6,351.61	1,965.47
Grantham R.P.D.—Grantham and Niagara twps.	97,386.18	48,693.09	48,693.09	10,498.58
Guelph R.P.D.—Eramosa, Nassagaweya, Guelph and Puslinch twps.	134,479.54	67,206.77	67,272.77	6,984.63
Haldimand R.P.D.—Seneca, Walpole, Rainham, Cayuga N., and Oneida twps.	*44,717.89	21,460.59	23,257.30	4,833.55
Harriston R.P.D.—Minto and Howick twps.	*16,291.17	7,996.01	8,295.16	105.57
Harrow R.P.D.—Colchester S., Malden, Colchester N., and Gosfield S. twps.	117,178.49	58,589.25	58,589.24	9,774.18
Ingersoll R.P.D.—Zorra E., Dorchester N., Dereham, Oxford N., Nissouri E., Zorra W., and Oxford W. twps.	237,900.87	118,950.43	118,950.44	9,761.60
Jordan R.P.D.—Louth, Thorold, Pelham and Grantham twps.	84,156.57	42,078.29	42,078.28	5,397.54
Keswick R.P.D.—Georgina, Gwillimbury N., and Gwillimbury E. twps.	*85,443.74	42,035.45	43,408.29	12,432.85
Kingsville R.P.D.—Gosfield N., Gosfield S., Mersea and Romney twps.	*242,905.78	120,209.39	122,696.39	15,294.65
Listowel R.P.D.—Wallace, Elma and Grey twps.	63,152.98	31,576.49	31,576.49	2,810.15
London R.P.D.—Westminster, Delaware, London and Nissouri W. twps.	*389,844.84	194,837.26	195,007.58	35,058.31
Lucan R.P.D.—Stephen, London, McGillivray and Biddulph twps.	*54,357.67	27,043.43	27,314.24	1,774.19
Lynden R.P.D.—Beverly, Ancaster, Brantford and Dumfries S. twps.	76,042.84	38,021.42	38,021.42	4,432.75
Markham R.P.D.—Markham, Scarboro, Pickering and Whitchurch twps.	*172,798.07	85,519.18	87,278.89	8,334.08

Note.—Items marked * include portions of transmission lines used for purposes of rural

District, the revenues collected from (or charged to) customers within each district, and Municipalities comprising certain other districts upon ascertainment (by annual year ending October 31, 1930

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, mainten-ance and adminis-	Interest on capital invest-ment	Renewal charges	Obsoles-cence and contin-gencies	Sinking fund			Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
344.81	313.84	282.93	141.46	74.48	1,284.70	469.09	....	815.61
1,965.79	997.35	899.11	449.56	236.69	7,822.92	8,267.56	444.64	....
759.85	265.01	238.91	119.45	62.89	2,296.18	1,929.79	....	366.39
2,246.77	613.40	552.98	276.49	145.57	6,294.46	5,641.04	....	653.42
4,056.43	2,431.40	2,157.29	1,078.65	577.02	16,321.99	20,942.54	4,620.55	....
4,954.12	2,340.64	2,087.90	1,043.95	555.48	18,758.83	22,109.50	3,350.67	....
613.84	356.11	308.85	154.42	84.51	1,952.56	2,141.10	188.54	....
3,526.67	1,134.47	1,022.73	511.36	269.23	10,480.28	9,646.30	....	833.98
1,830.51	1,339.80	1,207.83	603.92	317.96	7,752.55	8,269.49	516.94	....
790.78	215.30	194.09	97.05	51.09	3,313.78	3,321.12	7.34	....
4,396.45	2,052.88	1,850.67	925.34	487.19	20,211.11	20,100.72	....	110.39
6,256.00	2,460.48	2,217.35	1,108.68	583.93	19,611.07	18,800.38	....	810.69
2,947.45	703.60	619.17	309.58	166.97	9,580.32	10,300.83	720.51	....
431.37	113.85	96.65	48.33	27.02	822.79	790.98	....	31.81
5,721.68	2,295.94	2,069.79	1,034.90	544.87	21,441.36	24,644.44	3,203.08	....
6,705.91	5,021.58	4,526.96	2,263.48	1,191.72	29,471.25	29,509.92	38.67	....
3,354.32	1,593.57	1,436.60	718.30	378.19	12,878.52	14,545.41	1,666.89	....
12,207.88	1,709.23	1,513.42	756.71	405.63	29,025.72	23,052.86	....	5,972.86
10,329.92	4,980.81	4,444.52	2,222.25	1,182.04	38,454.19	47,879.79	9,425.60	....
2,955.14	1,195.53	1,077.77	538.89	283.72	8,861.20	8,733.28	....	127.92
20,234.59	7,900.00	7,118.45	3,559.22	1,874.83	75,745.40	77,355.27	1,609.87	....
1,302.31	1,111.41	996.52	498.26	263.76	5,946.45	5,904.25	....	42.20
2,003.64	1,649.41	1,486.94	743.47	391.43	10,707.64	10,944.80	237.16	....
4,334.93	3,530.22	3,147.40	1,573.70	837.79	21,758.12	27,784.89	6,026.77	....

power districts.

NIAGARA SYSTEM—

Statement showing the costs of distribution of power within each Rural Power the amounts remaining to be credited to certain districts or charged to the adjustment) of the actual costs in the

Districts and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	$ c.	$ c.	$ c.	$ c.
Merlin R.P.D.—Romney, Tilbury E. and Raleigh twps	*91,375.34	45,407.51	45,967.83	5,020.95
Milton R.P.D.—Nassagaweya, Esquesing, Trafalgar and Nelson twps	65,060.47	32,530.23	32,530.24	3,138.08
Milverton R.P.D.—Mornington and Elma twps.	30,668.16	15,334.08	15,334.08	1,391.05
Mitchell R.P.D.—Hibbert, Fullarton, Downie, Ellice, Logan and Elma twps	82,505.58	41,252.79	41,252.79	4,936.21
Newmarket R.P.D.—Gwillimbury E., King, Whitchurch and Scott twps	*65,761.60	32,444.26	33,317.34	6,736.14
Niagara R.P.D.—Niagara twp	*110,050.33	54,665.79	55,384.54	13,023.33
Norwich R.P.D.—Norwich N., Norwich S., Dereham, Oxford E., Burford, Windham and Middleton twps	*135,496.82	66,214.16	69,282.66	6,133.21
Oil Springs R.P.D.—Enniskillen, Dawn and Brooke twps	22,339.56	11,169.78	11,169.78	1,708.19
Palmerston R.P.D.—Maryborough, Peel, Arthur, Wallace and Minto twps	*41,825.60	20,679.34	21,146.26	362.38
Petrolia R.P.D.—Sarnia, Plympton, Enniskillen and Moore twps	*24,159.79	11,637.20	12,522.59	783.99
Preston R.P.D.—Waterloo, Puslinch, Dumfries N. and Woolwich twps	*258,471.77	128,997.75	129,474.02	19,382.23
Ridgetown R.P.D.—Howard, Orford, Harwich, Aldborough and Rondeau Park twps	182,527.71	91,263.85	91,263.86	10,621.05
St. Jacobs R.P.D.—Wellesley, Woolwich and Waterloo twps	82,818.81	41,358.62	41,460.19	5,245.08
St. Marys R.P.D.—Fullarton, Usborne, Blanshard and Downie twps	135,234.33	67,617.17	67,617.16	6,139.13
St. Thomas R.P.D.—Southwold, Yarmouth, Westminster and Dunwich twps	240,154.08	119,769.79	120,384.29	11,405.71
Saltfleet R.P.D.—Saltfleet, Barton, Binbrook and Grimsby N. twps	228,678.23	114,339.12	114,339.11	17,528.29
Sandwich R.P.D.—Sandwich W., Sandwich E., Sandwich S., Maidstone, Anderdon and Colchester N. twps	311,114.72	155,557.36	155,557.36	27,310.92
Sarnia R.P.D.—Sarnia, Moore and Plympton twps	*189,083.32	91,955.01	97,128.31	16,619.09
Scarboro R.P.D.—Scarboro, Pickering and York N. twps	141,467.47	70,733.74	70,733.73	5,688.56
Seaforth R.P.D.—Tuckersmith, McKillop and Hibbert twps	16,866.84	7,842.06	9,024.78	1,188.81
Simcoe R.P.D.—Woodhouse, Charlotteville, Windham and Townsend twps	*66,683.65	32,192.99	34,490.66	3,750.01
Stamford R.P.D.—Thorold twp	30,362.22	15,181.11	15,181.11	4,083.05
Stratford R.P.D.—Ellice, Downie, Easthope N., and Easthope S. twps	54,568.25	27,026.19	27,542.06	4,281.11
Strathroy R.P.D.—Adelaide, Metcalfe, Ekfrid and Caradoc twps	77,544.59	38,595.52	38,949.07	1,248.06

Note.—Items marked * include portions of transmission lines used for purposes of rural

RURAL POWER DISTRICTS *RURAL OPERATING*

District, the revenues collected from (or charged to) customers within each district, and Municipalities comprising certain other districts upon ascertainment (by annual year ending October 31, 1930

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest on capital investment	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c
3,601.57	1,672.53	1,496.59	748.29	396.92	12,936.85	11,592.51	....	1,344.34
1,816.54	1,362.52	1,228.31	614.16	323.35	8,482.96	10,591.20	2,108.24	....
1,803.47	614.17	553.67	276.84	145.75	4,784.95	3,656.54	....	1,128.41
3,311.59	1,623.00	1,463.14	731.57	385.17	12,450.68	12,722.67	271.99	....
4,617.93	1,244.40	1,104.36	552.18	295.32	14,550.33	14,676.62	126.29	....
4,340.48	2,350.90	2,104.96	1,052.48	557.92	23,430.07	26,508.69	3,078.62	....
7,136.28	2,860.90	2,517.73	1,258.86	678.95	20,585.93	22,143.37	1,557.44	....
1,373.62	436.57	393.57	196.78	103.61	4,212.34	4,213.27	0.93	....
509.52	118.04	97.07	48.54	28.01	1,163.56	804.75	....	358.81
794.70	418.09	359.20	179.59	99.22	2,634.79	2,577.93	....	56.86
11,775.33	5,222.98	4,698.99	2,349.49	1,239.51	44,668.53	44,751.62	83.09	....
6,859.10	3,744.24	3,375.43	1,687.72	888.58	27,176.12	26,625.28	....	550.84
4,343.35	1,357.03	1,223.03	611.51	322.05	13,102.05	12,942.98	....	159.07
4,201.18	2,684.61	2,420.18	1,210.09	637.11	17,292.30	14,708.10	....	2,584.20
10,047.21	4,736.16	4,266.61	2,133.27	1,123.99	33,712.95	37,967.67	4,254.72	....
11,227.53	4,817.26	4,342.76	2,171.38	1,143.23	41,230.45	42,639.05	1,408.60	....
25,850.57	6,586.39	5,937.63	2,968.80	1,563.08	70,217.39	76,479.04	6,261.65	....
10,989.32	4,088.86	3,582.64	1,791.32	970.38	38,041.61	40,870.06	2,828.45	....
3,275.64	2,643.23	2,382.87	1,191.44	627.29	15,809.03	21,061.92	5,252.89	....
1,339.42	393.14	330.77	165.38	93.30	3,510.82	3,765.63	254.81	....
3,528.22	1,292.80	1,119.50	559.74	306.80	10,557.07	10,576.45	19.38	....
3,254.22	642.42	579.14	289.57	152.46	9,000.86	10,423.45	1,422.59	....
3,702.49	1,174.06	1,048.10	524.05	278.63	11,008.44	11,240.97	232.53	....
1,294.01	706.42	629.76	314.89	167.64	4,360.78	5,057.61	696.83	....

power districts.

NIAGARA SYSTEM—

Statement showing the costs of distribution of power within each Rural Power the amounts remaining to be credited to certain districts or charged to the adjustment) of the actual costs in the

Districts and municipalities comprised therein	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	$ c.	$ c.	$ c.	$ c.
Streetsville R.P.D.—Toronto, Trafalgar, Esquesing and Chinguacousy twps	153,857.52	76,928.76	76,928.76	16,285.39
Tavistock R.P.D.—Easthope N., Easthope S. and Zorra twps	104,894.93	52,447.46	52,447.47	4,172.16
Thamesville R.P.D.—Camden, Euphemia, Zone, Orford, Howard, Chatham and Harwich twps	47,692.26	23,614.22	24,078.04	2,596.31
Tilbury R.P.D.—Dover W., Tilbury E., Tilbury W. and Tilbury N. twps	*51,478.86	25,505.97	25,972.89	4,261.46
Tillsonburg R.P.D.—Norwich S., Bayham, Dorchester S., Malahide, Houghton, Dereham, Middleton and Norwich N. twps	167,552.13	83,776.07	83,776.06	8,787.42
Wallaceburg R.P.D.—Dover E., Chatham and Sombra twps	112,178.93	55,894.95	56,283.98	5,393.94
Walsingham R.P.D.—Walsingham N., Walsingham S., Charlotteville, Windham and Middleton twps	*73,506.41	36,376.91	37,129.50	3,384.95
Walton R.P.D.—Wawanosh W., Wawanosh E., Mooris, Grey, Hullett and McKillop twps	*44,751.44	20,924.02	23,827.42	2,710.73
Waterdown R.P.D.—Flamboro E., Flamboro W. and Nelson twps	*82,387.28	40,780.68	41,606.60	11,732.59
Waterford R.P.D.—Windham and Townsend twps	65,194.52	32,597.26	32,597.26	3,120.50
Watford R.P.D.—Warwick, Adelaide and Metcalfe twps	22,839.11	11,419.55	11,419.56	189.41
Welland R.P.D.—Bertie, Pelham, Thorold, Crowland, Wainfleet and Humberstone twps	*469,349.45	233,956.39	235,393.06	27,890.44
Woodbridge R.P.D.—York North, Toronto, Vaughan, Etobicoke, Toronto Gore, Albion, King and Chinguacousy twps	*301,110.13	149,875.66	151,234.47	16,254.26
Woodstock R.P.D.—Oxford W., Oxford N., Oxford E., Burford, Blenheim, Blandford, Zorra W. and Zorra E. twps	206,325.57	103,162.79	103,162.78	12,091.12
	9,499,780.87		4,778,206.64	
Non-operating capital	105,888.18		105,888.18	
Totals	9,605,669.05	4,721,574.23	4,884,094.82	615,089.29

Note.—Items marked * include portions of transmission lines used for purposes of rural

RURAL POWER DISTRICTS *RURAL OPERATING*

District, the revenues collected from (or charged to) customers within each district, and Municipalities comprising certain other districts upon ascertainment (by annual year ending October 31, 1930

Distribution costs and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and administration	Interest on capital investment	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
5,853.35	3,260.24	2,939.11	1,469.55	773.72	30,581.36	36,059.20	5,477.84	....
4,634.39	1,845.50	1,663.72	831.86	437.97	13,585.60	12,301.05	....	1,284.55
1,886.03	1,002.34	894.34	447.17	237.87	7,064.06	7,786.82	722.76	....
1,048.58	1,046.67	934.32	467.16	248.40	8,006.59	9,005.54	998.95	....
7,418.42	3,502.64	3,157.63	1,578.82	831.25	25,276.18	24,877.09	....	399.09
3,443.96	2,237.96	2,009.74	1,004.87	531.12	14,621.59	17,842.36	3,220.77	....
2,342.76	1,019.47	904.00	452.01	241.94	8,345.13	9,291.11	945.98	....
2,636.34	1,053.00	891.38	445.70	249.92	7,987.07	8,492.05	504.98	....
2,692.19	1,624.04	1,447.56	723.78	385.42	18,605.58	25,552.62	6,947.04	....
2,543.61	1,221.14	1,100.86	550.43	289.80	8,826.34	8,205.38	....	620.96
382.72	282.30	254.49	127.25	67.00	1,303.17	1,081.97	....	221.20
25,385.62	8,073.79	7,258.12	3,629.06	1,916.07	74,153.10	84,468.48	10,315.38	....
9,349.64	6,178.64	5,543.28	2,771.63	1,466.31	41,563.76	45,754.69	4,190.93	....
7,459.45	4,036.12	3,638.56	1,819.28	957.85	30,002.38	32,653.48	2,651.10	....
408,419.77	186,962.86	167,463.56	83,731.78	44,370.01	1,506,037.27	1,628,018.20	145,702.34	23,721.41

Net Credit.. $121,980.93

power districts.

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount credited ending October 31, 1930, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1929		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Acton	Jan., 1913	1,485.32	....	....	1,485.32
Agincourt	Nov., 1922	423.49	....	....	423.49
Ailsa Craig	Jan., 1916	157.03	....	....	157.03
Alvinston	April, 1922	....	51.22	51.22	....
Amherstburg	Nov., 1925	2,873.47	....	....	2,873.47
Ancaster twp	May, 1923	989.44	....	....	989.44
Arkona	Dec., 1926	498.57	....	....	498.57
Aylmer	Mar., 1918	2,842.86	....	....	2,842.86
Ayr	Jan., 1915	292.44	....	....	292.44
Baden	May, 1912	593.89	....	....	593.89
Barton twp	May, 1924	411.73	....	....	411.73
Beachville	Aug., 1912	1,342.25	....	....	1,342.25
Belle River	Dec., 1922	515.11	....	....	515.11
Blenheim	Nov., 1915	1,223.45	....	....	1,223.45
Blyth	July, 1924	793.16	....	....	793.16
Bolton	Feb., 1915	528.88	....	....	528.88
Bothwell	Sept., 1915	616.83	....	....	616.83
Brampton	Nov., 1911	9,188.91	....	....	9,188.91
Brantford	Feb., 1914	16,655.10	....	....	16,655.10
Brantford twp	May, 1924	....	189.50	189.50	....
Bridgeport	Mar., 1928	....	62.91	62.91	....
Brigden	Jan., 1918	970.81	....	....	970.81
Brussels	July, 1924	462.97	....	....	462.97
Burford	June, 1915	668.40	....	....	668.40
Burgessville	Nov., 1916	529.44	....	....	529.44
Caledonia	Oct., 1912	620.45	....	....	620.45
Campbellville	Jan., 1925	320.28	....	....	320.28
Cayuga	Nov., 1924	662.92	....	....	662.92
Chatham	Feb., 1915	12,541.24	....	....	12,541.24
Chippawa	Sept., 1919	304.85	....	....	304.85
Clifford	May, 1924	219.44	....	....	219.44
Clinton	Mar., 1914	453.69	....	....	453.69
Comber	May, 1915	415.77	....	....	415.77
Cottam	Nov., 1926	299.41	....	....	299.41
Courtright	Dec., 1923	524.18	....	....	524.18
Dashwood	Sept., 1917	268.84	....	....	268.84
Delaware	Mar., 1915	245.30	....	....	245.30
Dorchester	Dec., 1914	320.25	....	....	320.25
Drayton	Mar., 1918	42.37	....	....	42.37
Dresden	April, 1915	....	595.28	595.28	....
Drumbo	Dec., 1914	232.95	....	....	232.95
Dublin	Oct., 1917	....	77.76	....	....
Dundas	Jan., 1911	3,653.16	....	....	3,653.16
Dunnville	June, 1918	4,519.34	....	....	4,519.34
Dutton	Sept., 1915	347.99	....	....	347.99

SYSTEM *CREDIT OR CHARGE*

supplied to it to October 31, 1929, the cash receipts and payments thereon, adjustments or charged to each Municipality in respect of power supplied in the year as a credit or charge to each Municipality at October 31, 1930

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1930		Accumulated amount standing as a credit or charge on October 31, 1930	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
24.09		613.22		637.31	
7.80		720.87		728.67	
2.89		208.83		211.72	
	0.94	135.44		134.50	
49.78		3,014.96		3,064.74	
21.60		132.05		153.65	
9.81		233.77		243.58	
49.83		1,975.08		2,024.91	
4.94			31.08		26.14
9.83		315.02		324.85	
7.00		152.69		159.69	
25.85		1,260.55		1,286.40	
10.20		437.49		447.69	
23.12		564.66		587.78	
15.81		532.27		548.08	
9.95		311.77		321.72	
12.65		107.01		119.66	
162.57		8,044.79		8,207.36	
306.64		11,496.94		11,803.58	
	3.20		1,270.00		1,273.20
	1.05		334.50		335.55
14.21		446.36		460.57	
7.34		375.10		382.44	
13.37		862.14		875.51	
10.99		73.06		84.05	
10.00		616.39		626.39	
5.58		738.77		744.35	
8.79		879.60		888.39	
209.89		6,610.04		6,819.93	
5.62			64.22		58.60
4.04		15.47		19.51	
8.36		862.39		870.75	
7.22		122.93		130.15	
5.85		292.43		298.28	
9.09		310.54		319.63	
5.06		246.17		251.23	
4.99		126.75		131.74	
6.12		159.36		165.48	
.80		237.99		238.79	
	23.68	496.20		472.52	
4.31			239.92		235.61
	3.11		321.08		401.95
56.45		3,081.94		3,138.39	
81.13		1,600.23		1,681.36	
5.80		777.45		783.25	

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount credited ending October 31, 1930, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1929		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
East Windsor	Nov., 1922	17,004.88			21,477.72
Elmira	Nov., 1913	1,992.41			1,992.41
Elora	Nov., 1914	1,102.23			1,102.23
Embro	Jan., 1915	470.73			470.73
Erieau	July, 1924	255.86			255.86
Erie Beach	July, 1925		75.94	75.94	
Essex	Nov., 1923	1,250.68			1,250.68
Etobicoke twp	Aug., 1917	8,748.61			8,748.61
Exeter	June, 1916	809.41			809.41
Fergus	Nov., 1914	1,964.55			1,964.55
Fonthill	June, 1926	388.77			388.77
Forest	Mar., 1917	1,216.34			1,216.34
Galt	May, 1911	17,217.65			17,217.65
Georgetown	Sept., 1913	1,273.37			1,273.37
Glencoe	Aug., 1920	1,347.59			1,347.59
Goderich	Feb., 1914	1,354.86			1,354.86
Granton	July, 1916	300.86			300.86
Guelph	Dec., 1910	17,040.87			17,040.87
Hagersville	Sept., 1913	3,142.25			3,142.25
Hamilton	Feb., 1911	80,079.18			80,079.18
Harriston	July, 1916	1,214.60			1,214.60
Harrow	Nov., 1923	1,321.84			1,321.84
Hensall	Jan., 1917	825.39			825.39
Hespeler	Feb., 1911	3,947.04			3,947.04
Highgate	Dec., 1916	347.09			347.09
Humberstone	Oct., 1924	413.39			413.39
Ingersoll	May, 1911	5,527.64			5,527.64
Jarvis	Feb., 1924	479.36			479.36
Kingsville	Nov., 1923	2,165.39			2,165.39
Kitchener	Jan., 1911	24,941.59			24,941.59
Lambeth	April, 1915	422.28			422.28
LaSalle	Nov., 1925	1,123.86			1,123.86
Leamington	Nov., 1923	3,788.39			3,788.39
Listowel	June, 1916	2,197.82			2,197.82
London	Jan., 1911	53,596.10			53,596.10
London Railway Commission	Aug., 1914	7,012.53			7,012.53
London twp	Jan., 1925	1,350.52			1,350.52
Lucan	Feb., 1915	555.51			555.51
Lynden	Nov., 1915	291.49			291.49
Markham	April, 1920	1,796.10			1,796.10
Merlin	Dec., 1922	819.90			819.90
Merritton	Nov., 1920	890.61			890.61
Milton	April, 1913	3,057.23			3,057.23
Milverton	June, 1916	862.45			862.45
Mimico	May, 1912	4,911.92			4,911.92

SYSTEM *CREDIT OR CHARGE*

supplied to it to October 31, 1929, the cash receipts and payments thereon, adjustments or charged to each Municipality in respect of power supplied in the year as a credit or charge to each Municipality at October 31, 1930

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1930		Accumulated amount standing as a credit or charge on October 31, 1930	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
307.94		11,716.72		7,551.82	
32.53		1,283.47		1,316.00	
17.51			879.00		861.49
8.36		696.04		704.40	
3.50			38.93		35.43
	1.52	100.69		99.17	
24.03		921.98		946.01	
152.80		5,881.63		6,034.43	
13.39		1,499.10		1,512.49	
32.72			372.88		340.16
7.40		424.99		432.39	
19.65		831.57		851.22	
288.54		15,487.08		15,775.62	
19.82		218.10		237.92	
22.45		336.90		359.35	
22.42		1,946.11		1,968.53	
4.12		67.30		71.42	
281.99		16,432.32		16,714.31	
61.97		3,301.01		3,362.98	
1,386.59		32,658.78		34,045.37	
16.82		438.17		454.99	
23.28		1,891.72		1,915.00	
16.09		1,105.53		1,121.62	
68.11		3,394.86		3,462.97	
6.39		60.40		66.79	
7.93			487.81		479.88
93.08		4,146.26		4,239.34	
8.83		676.60		685.43	
37.83		2,831.52		2,869.35	
412.73		22,151.19		22,563.92	
5.60		406.72		412.32	
21.76		1,571.30		1,593.06	
64.99		3,452.85		3,517.84	
36.37		921.21		957.58	
886.91		37,852.44		38,739.35	
148.16		281.21		429.37	
23.43		925.89		949.32	
9.09		663.66		672.75	
5.45		250.30		255.75	
36.54		1,445.02		1,481.56	
14.43		1,058.21		1,072.64	
13.86		1,077.66		1,091.52	
41.27		799.92		841.19	
11.44			309.62		298.18
83.45		2,036.57		2,120.02	

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount credited ending October 31, 1930, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1929		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Mitchell	Sept., 1911	1,137.07			1,137.07
Moorefield	Mar., 1918	183.58			183.58
Mount Brydges	Mar., 1915	509.60			509.60
Newbury	Mar., 1921	156.63			156.63
New Hamburg	Mar., 1911	851.91			851.91
New Toronto	Feb., 1914	16,265.96			16,265.96
Niagara Falls	Dec., 1915		3,615.10	3,615.10	
Niagara-on-Lake	Aug., 1919	849.96			849.96
Norwich	May, 1912	1,095.82			1,095.82
Oil Springs	Feb., 1918		379.64	379.64	
Otterville	Feb., 1916	524.05			524.05
Palmerston	July, 1916	1,269.94			1,269.94
Paris	Feb., 1914	2,799.65			2,799.65
Parkhill	May, 1920	841.75			841.75
Petrolia	May, 1916	4,309.53			4,309.53
Plattsville	Dec., 1914	184.38			184.38
Point Edward	Nov., 1916	1,470.54			1,470.54
Port Colborne	Mar., 1920	1,077.63			1,077.63
Port Credit	Aug., 1912	1,163.66			1,163.66
Port Dalhousie	Nov., 1912	1,973.63			1,973.63
Port Dover	Dec., 1921	638.99			638.99
Port Rowan	Nov., 1926		696.97		
Port Stanley	April, 1912	1,840.48			1,840.48
Preston	Jan., 1911	5,616.46			5,616.46
Princeton	Jan., 1915	402.51			402.51
Queenston	Mar., 1921		71.89	71.89	
Richmond Hill	June, 1925	1,000.96			1,000.96
Ridgetown	Dec., 1915	1,524.86			1,524.86
Riverside	Nov., 1922	3,186.63			3,186.63
Rockwood	Sept., 1913	492.81			492.81
Rodney	Feb., 1917		82.75	82.75	
St. Catharines	April, 1914	2,062.96			2,062.96
St. Clair Beach	Nov., 1922	319.41			319.41
St. George	Sept., 1915	890.72			890.72
St. Jacobs	Sept., 1917	652.81			652.81
St. Marys	May, 1911	2,229.64			2,229.64
St. Thomas	April, 1911	13,494.66			13,494.66
Sandwich	Feb., 1924	6,027.61			6,027.61
Sarnia	Dec., 1916	19,811.25			20,745.02
Scarboro twp	Aug., 1918	6,950.55			6,950.55
Seaforth	Nov., 1911	1,056.29			1,056.29
Simcoe	Aug., 1915	866.64			866.64
Springfield	Aug., 1917	458.43			458.43
Stamford twp	Nov., 1916	1,467.81			1,467.81
Stouffville	Sept., 1923	1,173.47			1,173.47

SYSTEM *CREDIT OR CHARGE*

supplied to it to October 31, 1929, the cash receipts and payments thereon, adjustments or charged to each Municipality in respect of power supplied in the year as a credit or charge to each Municipality at October 31, 1930

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1930		Accumulated amount standing as a credit or charge on October 31, 1930	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
20.99		1,030.56		1,051.55	
3.38		96.61		99.99	
10.03		533.95		543.98	
2.99			67.70		64.71
13.63		264.88		278.51	
276.39		7,611.82		7,888.21	
	103.01		4,805.33		4,908.34
13.96		1,176.01		1,189.97	
21.38		848.93		870.31	
3.23			22.02		18.79
10.48		364.75		375.23	
23.46		279.78		303.24	
46.39		1,432.13		1,478.52	
16.06		802.96		819.02	
74.80		3,004.20		3,079.00	
2.93			92.10		89.17
25.30		2,234.09		2,259.39	
18.66			1,886.43		1,867.77
21.53		1,190.59		1,212.12	
35.52		1,679.44		1,714.96	
11.76		1,102.54		1,114.30	
	27.88	753.68		28.83	
41.99		693.26		735.25	
92.94		4,375.89		4,468.83	
7.64			154.77		147.13
1.64			118.52		116.88
19.48		530.37		549.85	
26.35		713.85		740.20	
53.82		2,866.79		2,920.61	
8.39		178.83		187.22	
	1.78	239.57		237.79	
30.97		234.95		265.92	
5.49		345.65		351.14	
17.92		635.53		653.45	
12.67		671.10		683.77	
36.90		1,149.32		1,186.22	
226.83		11,298.79		11,525.62	
110.97			315.25		204.28
343.74		14,382.63		13,792.60	
129.56		12,013.62		12,143.18	
18.06		1,232.40		1,250.46	
11.49		3,009.30		3,020.79	
8.86		345.28		354.14	
27.02		1,393.53		1,420.55	
23.31		847.38		870.69	

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount credited ending October 31, 1930, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1929		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Stratford	Jan., 1911	18,080.01	....	....	18,080.01
Strathroy	Dec., 1914	1,566.11	....	....	1,566.11
Sutton	Aug., 1923	701.98	....	....	701.98
Tavistock	Nov., 1916	229.60	....	....	229.60
Tecumseh	Nov., 1922	728.55	....	....	728.55
Thamesford	Feb., 1914	855.56	....	....	855.56
Thamesville	Oct., 1915	857.47	....	....	857.47
Thedford	May, 1922	539.95	....	....	539.95
Thorndale	Mar., 1914	220.96	....	....	220.96
Thorold	Jan., 1921	1,513.10	....	....	1,513.10
Tilbury	April, 1915	1,481.97	....	....	1,481.97
Tillsonburg	Aug., 1911	2,123.89	....	....	2,123.89
Toronto	June, 1911	448,107.01	....	....	448,107.01
Toronto twp	Aug., 1913	4,942.46	....	....	4,942.46
Walkerville	Nov., 1914	19,219.44	....	....	14,915.35
Wallaceburg	Feb., 1915	5,074.13	....	....	5,074.13
Wardsville	June, 1921	243.40	....	....	243.40
Waterdown	Nov., 1911	781.79	....	....	781.79
Waterford	April, 1915	594.16	....	....	594.16
Waterloo	Dec., 1910	4,229.16	....	....	4,229.16
Watford	Sept., 1917	1,152.69	....	....	1,152.69
Welland	Sept., 1917	5,645.87	....	....	5,645.87
Wellesley	Nov., 1916	405.21	....	....	405.21
West Lorne	Jan., 1917	....	726.41	....	....
Weston	Jan., 1911	9,097.03	....	....	9,097.03
Wheatley	Feb., 1924	334.48	....	....	334.48
Windsor	Oct., 1914	55,801.61	....	....	55,801.61
Woodbridge	Dec., 1914	1,136.37	....	....	1,136.37
Woodstock	Jan., 1911	12,828.84	....	....	12,828.84
Wyoming	Nov., 1916	145.14	....	....	145.14
York East twp	July, 1925	14,520.46	....	....	14,520.46
York North twp	Nov., 1923	3,717.93	....	....	3,717.93
Zurich	Sept., 1917	644.65	....	....	644.65
Toronto Transportation Comm	Jan., 1927	6,650.30	....	....	6,650.30
North York Radials	July, 1930	....	....	....	....
RURAL POWER DISTRICT*					
Acton R.P.D	Feb., 1928	82.77	....	....	....
Ailsa Craig R.P.D	Sept., 1930	....	....	....	....
Alvinston R.P.D	June, 1929	....	6.95	....	....
Amherstburg R.P.D	Nov., 1923	12,152.33	....	....	....
Aylmer R.P.D	Nov., 1922	4,214.11	....	....	36.00

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*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

SYSTEM *CREDIT OR CHARGE*

supplied to it to October 31, 1929, the cash receipts and payments thereon, adjustments or charged to each Municipality in respect of power supplied in the year as a credit or charge to each Municipality at October 31, 1930

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1930		Accumulated amount standing as a credit or charge on October 31, 1930	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
302.74		17,418.49		17,721.23	
24.89		2,804.60		2,829.49	
9.92			104.56		94.64
4.22		351.70		355.92	
12.22		877.79		890.01	
17.05		416.87		433.92	
16.73		354.55		371.28	
10.96		151.10		162.06	
4.24			51.98		47.74
25.04		1,959.99		1,985.03	
27.36		1,585.35		1,612.71	
35.52		1,627.56		1,663.08	
6,973.28		383,374.82		390,348.10	
86.21		3,039.48		3,125.69	
330.68		13,841.70		18,476.47	
94.22		2,795.18		2,889.40	
4.25		129.59		133.84	
15.18		684.85		700.03	
9.83		525.11		534.94	
67.67		2,719.38		2,787.05	
22.69		822.59		845.28	
91.57		4,435.78		4,527.35	
6.71		375.16		381.87	
	29.06	533.28			222.19
174.67		7,512.90		7,687.57	
6.16		18.30		24.46	
941.75		46,970.01		47,911.76	
15.07		1,056.82		1,071.89	
242.71		11,487.87		11,730.58	
2.67		56.59		59.26	
210.50		13,047.63		13,258.13	
63.56		2,735.55		2,799.11	
12.63		451.05		463.68	
110.77		349.43		460.20	
		508.96		508.96	
3.31			15.38	70.70	
		3.33		3.33	
	0.28	80.37		73.14	
486.09		5,416.36		18,054.78	
167.49		2,913.35		7,258.95	

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount credited ending October 31, 1930, and the accumulated amount standing

Rural power district	Date commenced operating	Net credit or charge at October 31, 1929		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c
Ayr R.P.D.	July, 1926	1,380.12			
Baden R.P.D.	Sept., 1922	1,744.48			
Beamsville R.P.D.	Jan., 1923	18,138.70			
Belle River R.P.D.	Dec., 1922	15,805.51			
Blenheim R.P.D.	July, 1924	7,167.36			
Bond Lake R.P.D.	Mar., 1924	28,401.82			23.51
Bothwell R.P.D.	Dec., 1923	6,346.74			59.14
Brampton R.P.D.	Nov., 1923	1,937.67			8.57
Brant R.P.D.	Oct., 1922		392.92		
Brigden R.P.D.	Jan., 1927		404.43		
Burford R.P.D.	Dec., 1926	1,184.26			
Caledonia R.P.D.	Oct., 1925		1,422.52		
Chatham R.P.D.	May, 1922	6,184.37			32.43
Chippawa R.P.D.	July, 1922	1,342.09			
Clinton R.P.D.	July, 1928		346.10		
Delaware R.P.D.	Oct., 1922	3,552.86			
Dorchester R.P.D.	Dec., 1921		698.11		
Dresden R.P.D.	May, 1928	227.15			
Drumbo R.P.D.	Aug., 1922	1,206.68			
Dundas R.P.D.	Jan., 1922	6,623.40			
Dunnville R.P.D.	July, 1928	112.32			
Dutton R.P.D.	Feb., 1926	1,559.28			
Elmira R.P.D.	June, 1926	121.68			
Elora R.P.D.	Jan., 1926	1,617.45			
Essex R.P.D.	Nov., 1924	5,412.24			
Exeter R.P.D.	Nov., 1922	6,814.47			
Forest R.P.D.	Nov., 1926	211.97			
Galt R.P.D.	Oct., 1922	3,090.61			
Georgetown R.P.D.	Nov., 1924	3,206.10			
Goderich R.P.D.	June, 1925	600.75			
Grantham R.P.D.	Nov., 1924	1,527.81			
Guelph R.P.D.	Jan., 1925		1,816.72		
Haldimand R.P.D.	Oct., 1925	2,994.06			
Harriston R.P.D.	Dec., 1929				
Harrow R.P.D.	Nov., 1923	4,064.36			
Ingersoll R.P.D.	Oct., 1922	2,587.47			
Jordan R.P.D.	May, 1922	3,401.96			
Keswick R.P.D.	Mar., 1924	1,833.78			
Kingsville R.P.D.	Nov., 1923	15,021.32			
Listowel R.P.D.	Oct., 1926	1,540.35			
London R.P.D.	Nov., 1922	10,987.49			41.72
Lucan R.P.D.	June, 1926		25.89		
Lynden R.P.D.	Feb., 1922	412.22			
Markham R.P.D.	Dec., 1922	6,879.49			
Merlin R.P.D.	Nov., 1928	1,504.96			46.08

SYSTEM *CREDIT OR CHARGE*

supplied to it to October 31, 1929, the cash receipts and payments thereon, adjustments or charged to each Municipality in respect of power supplied in the year as a credit or charge to each Municipality at October 31, 1930

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1930		Accumulated amount standing as a credit or charge on October 31, 1930	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
55.20		222.78		1,658.10	
69.78			2,374.60		560.34
725.55		8,798.47		27,662.72	
632.22		5,205.42		21,643.15	
286.69		1,763.06		9,217.11	
1,135.45		6,784.25		36,298.01	
251.70		929.44		7,468.74	
77.33			919.60	1,086.83	
	15.72	573.40		164.76	
	16.18		638.22		1,058.83
47.37		936.61		2,168.24	
	56.90	1,000.70			478.72
246.34		4,427.19		10,825.47	
53.68		566.79		1,962.56	
	13.84		621.44		981.38
142.11		2,074.58		5,769.55	
	27.92	1,174.57		448.54	
9.09			139.30	96.94	
48.27			539.27	715.68	
264.94		4,939.66		11,828.00	
4.49			815.61		698.80
62.37		444.64		2,066.29	
4.87			366.39		239.84
64.70			653.42	1,028.73	
216.49		4,620.55		10,249.28	
272.58		3,350.67		10,437.72	
8.48		188.54		408.99	
123.62			833.98	2,380.25	
128.24		516.94		3,851.28	
24.03		7.34		632.12	
61.11			110.39	1,478.53	
	72.67		810.69		2,700.08
119.76		720.51		3,834.33	
			31.81		31.81
162.57		3,203.08		7,430.01	
103.50		38.67		2,729.64	
136.08		1,666.89		5,204.93	
73.35			5,972.86		4,065.73
600.85		9,425.60		25,047.77	
61.61			127.92	1,474.04	
437.96		1,609.87		12,993.60	
	1.04		42.20		69.13
16.49		237.16		665.87	
275.18		6,026.77		13,181.44	
59.27			1,344.34	173.81	

NIAGARA

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount credited ending October 31, 1930, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1929		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Milton R.P.D.	Jan., 1925	3,563.40	....	....	....
Milverton R.P.D.	Aug., 1927	....	870.64	....	....
Mitchell R.P.D.	Dec., 1925	1,009.00	....	....	....
Newmarket R.P.D.	Mar., 1924	4,625.89	....	....	....
Niagara R.P.D.	Jan., 1922	13,604.53	....	....	....
Norwich R.P.D.	May, 1925	6,889.08	....	....	....
Oil Springs R.P.D.	Dec., 1925	2,412.91	....	....	....
Palmerston R.P.D.	Oct., 1926	264.53	....	....	....
Petrolia R.P.D.	Aug., 1923	....	79.63	....	....
Preston R.P.D.	April, 1922	5,163.17	....	....	....
Ridgetown R.P.D.	Mar., 1922	3,707.22	....	....	....
St. Jacobs R.P.D.	Nov., 1922	4,019.81	....	....	....
St. Marys R.P.D.	Dec., 1927	....	2,644.72	709.26	....
St. Thomas R.P.D.	Aug., 1923	3,773.63	....	....	....
Saltfleet R.P.D.	Feb., 1922	....	605.62	....	....
Sandwich R.P.D.	July, 1922	38,242.22	....	....	42.08
Sarnia R.P.D.	June, 1923	5,101.52	....	....	....
Scarboro R.P.D.	Dec., 1923	6,626.46	....	....	....
Seaforth R.P.D.	Nov., 1927	....	509.73	....	....
Simcoe R.P.D.	Nov., 1922	2,167.40	....	....	....
Stamford R.P.D.	Mar., 1922	6,299.51	....	....	....
Stratford R.P.D.	July, 1924	0.74	....	....	7.00
Strathroy R.P.D.	Dec., 1926	1,635.08	....	....	....
Streetsville R.P.D.	Nov., 1922	2,189.41	....	483.59	....
Tavistock R.P.D.	April, 1923	....	1,071.57	....	....
Thamesville R.P.D.	Nov., 1927	977.98	....	....	....
Tilbury R.P.D.	Dec., 1923	2,603.36	....	....	....
Tillsonburg R.P.D.	Dec., 1923	8,356.33	....	....	....
Wallaceburg R.P.D.	Jan., 1923	4,831.33	....	....	107.23
Walsingham R.P.D.	Dec., 1926	....	250.15	....	125.60
Walton R.P.D.	Nov., 1924	457.59	....	....	....
Waterdown R.P.D.	Oct., 1922	13,463.47	....	....	....
Waterford R.P.D.	Nov., 1923	....	2,118.55	....	....
Watford R.P.D.	Dec., 1929	....	....	....	....
Welland R.P.D.	April, 1922	17,452.84	....	....	....
Woodbridge R.P.D.	Jan., 1923	8,774.39	....	....	150.28
Woodstock R.P.D.	Feb., 1922	8,008.46	....	....	43.39
Totals	....	1,453,295.46	19,889.62	6,317.08	1,085,705.19

SYSTEM *CREDIT OR CHARGE*

supplied to it to October 31, 1929, the cash receipts and payments thereon, adjustments or charged to each Municipality in respect of power supplied in the year as a credit or charge to each Municipality at October 31, 1930

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1930		Accumulated amount standing as a credit or charge on October 31, 1930	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
142.54	....	2,108.24	....	5,814.18	....
....	34.83	....	1,128.41	....	2,033.88
40.36	....	271.99	....	1,321.35	....
185.04	....	126.29	....	4,937.22	....
544.18	....	3,078.62	....	17,227.33	....
275.56	....	1,557.44	....	8,722.08	....
96.52	....	0.93	....	2,510.36	....
10.58	....	....	358.81	....	83.70
....	3.19	....	56.86	....	139.68
206.53	....	83.09	....	5,452.79	....
148.29	....	....	550.84	3,304.67	....
160.79	....	....	159.07	4,021.53	....
....	76.65	....	2,584.20	....	4,596.31
150.95	....	4,254.72	....	8,179.30	....
....	24.22	1,408.60	....	778.76	....
1,529.14	....	6,261.65	....	45,990.93	....
204.06	....	2,828.45	....	8,134.03	....
265.06	....	5,252.89	....	12,144.41	....
....	20.39	254.81	....	....	275.31
86.70	....	19.38	....	2,273.48	....
251.98	....	1,422.59	....	7,974.08	....
0.01	....	232.53	....	226.28	....
65.40	....	696.83	....	2,397.31	....
99.97	....	5,477.84	....	8,250.81	....
....	42.86	....	1,284.55	....	2,398.98
39.12	....	722.76	....	1,739.86	....
104.13	....	998.95	....	3,706.44	....
334.25	....	....	399.09	8,291.49	....
189.99	....	3,220.77	....	8,134.86	....
....	13.38	945.98	....	556.85	....
18.30	....	504.98	....	980.87	....
538.54	....	6,947.04	....	20,949.05	....
....	84.74	....	620.96	....	2,824.25
....	....	....	221.20	....	221.20
698.11	....	10,315.38	....	28,466.33	....
348.84	....	4,190.93	....	13,163.88	....
319.47	....	2,651.10	....	10,935.64	....
32,698.14	700.04	984,719.05	35,689.11	1,370,631.57	35,585.80

NIAGARA SYSTEM

Reserve for Renewals—October 31, 1930

Total provision for renewals to October 31, 1929	$12,012,656.51	
Deduct:		
Expenditures to October 31, 1929	870,895.36	
Balance brought forward October 31, 1929		$11,141,761.15
Added during the year ending October 31, 1930:		
Amounts charged to municipalities as part of the cost of power delivered to them	$1,046,158.88	
Amounts included in costs of distribution of power within rural power districts	167,463.56	
Provision against equipment employed in respect of contracts with private companies which purchased power	392,835.83	
Provision for renewals reserve on transmission line acquired from the Department of Railways and Canals (Port Colborne)	1,400.00	
Reserve provided on equipment and transmission lines purchased	4,572.03	
Reserve provided in respect of certain rural lines transferred to rural power districts and transmission lines	1,987.99	
Interest at 4% per annum on the monthly balances at the credit of the account	445,884.33	2,060,302.62
		$13,202,063.77
Deduct:		
Expenditures during the year ending October 31, 1930		251,736.01
Balance carried forward October 31, 1930		$12,950,327.76

NIAGARA SYSTEM

Reserve for Obsolescence and Contingencies—October 31, 1930

Balance brought forward October 31, 1929		$10,610,226.94
Added during the year ending October 31, 1930:		
Amounts charged to municipalities and rural power districts as part of the cost of power delivered to them	$1,957,433.27	
Amounts included in the costs of distribution of power within rural power districts	83,731.78	
Provision against equipment employed in respect of contracts with private customers which purchased power	852,619.88	
Interest at 4% per annum on monthly balances at the credit of the account	424,409.08	3,318,194.01
		$13,928,420.95
Deduct:		
Expenditures during the year ending October 31, 1930		359,895.12
Balance carried forward October 31, 1930		$13,568,525.83

NIAGARA SYSTEM—Continued *SINKING FUND*

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder as part of the cost of power delivered thereto, together with its proportionate share of other sinking funds provided out of other revenues of the system and interest allowed thereon to October 31, 1930

Municipality	Period of years ending Oct. 31, 1930	Amount	Municipality	Period of years ending Oct. 31, 1930	Amount
	$ c.	$ c.		$ c.	$ c.
Acton	13 years	22,944.10	East Windsor	8 years	85,588.91
Agincourt	6 “	2,995.69	Elmira	12 “	34,758.51
Ailsa Craig	10 “	6,998.55	Elora	11 “	16,421.55
Alvinston	7 “	6,589.68	Embro	11 “	4,755.62
Amherstburg	13 “	17,899.54	Erieau	7 “	1,623.79
Ancaster twp.	7 “	5,154.75	Erie Beach	6 “	439.41
Arkona	4 “	1,578.90	Essex	7 “	10,307.75
Aylmer	7 “	15,580.60	Etobicoke twp.	8 “	56,972.51
Ayr	11 “	5,508.77	Exeter	9 “	16,339.86
Baden	13 “	14,516.75	Fergus	11 “	18,472.03
Barton twp.	7 “	1,729.16	Fonthill	5 “	1,471.27
Beachville	13 “	17,589.93	Forest	8 “	10,978.74
Belle River	8 “	3,285.53	Galt	14 “	227,733.82
Blenheim	10 “	14,966.70	Georgetown	12 “	38,894.89
Blyth	7 “	3,087.68	Glencoe	7 “	7,076.39
Bolton	10 “	8,043.77	Goderich	11 “	50,600.45
Bothwell	10 “	8,707.28	Granton	9 “	3,469.55
Brampton	14 “	65,045.47	Guelph	14 “	263,987.99
Brantford	11 “	331,278.60	Hagersville	12 “	34,726.60
Brantford twp.	7 “	9,134.42	Hamilton	14 “	1,333,362.13
Bridgeport	3 “	1,153.64	Harriston	9 “	13,437.77
Brigden	8 “	5,001.96	Harrow	7 “	6,258.50
Brussels	7 “	4,491.88	Hensall	9 “	5,671.22
Burford	10 “	5,412.70	Hespeler	14 “	35,959.49
Burgessville	9 “	2,208.55	Highgate	9 “	4,395.36
Caledona	13 “	8,403.54	Humberstone	7 “	5,841.61
Campbellville	6 “	484.96	Ingersoll	14 “	75,176.79
Cayuga	6 “	2,892.90	Jarvis	7 “	4,985.78
Chatham	10 “	160,923.97	Kingsville	7 “	14,226.18
Chippawa	8 “	6,898.13	Kitchener	14 “	497,597.47
Clifford	7 “	2,082.37	Lambeth	10 “	3,636.66
Clinton	11 “	18,757.65	La Salle	5 “	3,855.35
Comber	10 “	8,370.76	Leamington	7 “	23,093.04
Cottam	4 “	941.80	Listowel	9 “	27,700.72
Courtright	7 “	2,001.97	London	14 “	897,425.49
Dashwood	8 “	3,541.74	London Ry. Comm.	11 “	63,663.42
Delaware	10 “	1,080.89	London twp.	6 “	4,159.76
Dorchester	11 “	2,767.65	Lucan	10 “	8,572.42
Drayton	7 “	4,605.73	Lynden	10 “	6,647.57
Dresden	10 “	12,558.73	Markham	7 “	5,872.30
Drumbo	11 “	2,537.87	Merlin	7 “	5,117.69
Dublin	8 “	2,382.69	Merritton	9 “	26,689.32
Dundas	14 “	61,026.15	Milton	12 “	48,961.49
Dunnville	7 “	21,203.86	Milverton	9 “	21,205.66
Dutton	10 “	7,804.07	Mimico	13 “	49,976.26

NIAGARA SYSTEM—Continued *SINKING FUND*

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder as part of the cost of power delivered thereto, together with its proportionate share of other sinking funds provided out of other revenues of the system and interest allowed thereon to October 31, 1930

Municipality	Period of years ending Oct. 31, 1930	Amount
	$ c.	$ c.
Mitchell	14 years	18,057.57
Moorefield	7 “	2,476.00
Mount Brydges	10 “	2,611.95
Newbury	7 “	1,614.49
New Hamburg	14 “	21,205.02
New Toronto	11 “	163,793.80
Niagara Falls	10 “	226,811.90
Niagara-on-Lake	7 “	10,873.65
Norwich	13 “	15,893.48
Oil Springs	7 “	10,991.14
Otterville	9 “	3,168.77
Palmerston	9 “	16,584.84
Paris	11 “	47,613.47
Parkhill	7 “	6,853.17
Petrolia	9 “	41,907.14
Plattsville	11 “	3,719.04
Point Edward	8 “	17,362.57
Port Colborne	9 “	32,083.67
Port Credit	13 “	12,791.91
Port Dalhousie	9 “	10,743.37
Port Dover	7 “	7,928.43
Port Rowan	4 “	1,887.98
Port Stanley	13 “	15,838.76
Preston	14 “	114,313.70
Princeton	11 “	2,685.79
Queenston	7 “	2,607.63
Richmond Hill	6 “	4,578.51
Ridgetown	10 “	16,278.52
Riverside	8 “	26,385.76
Rockwood	12 “	4,502.07
Rodney	8 “	4,592.90
St. Catharines	9 “	198,930.73
St. Clair Beach	8 “	2,309.34
St. George	10 “	5,334.45
St. Jacobs	8 “	5,456.48
St. Marys	14 “	55,377.45
St. Thomas	14 “	188,433.79
Sandwich	7 “	81,184.18
Sarnia	9 “	222,267.76
Scarboro twp.	7 “	49,453.83
Seaforth	14 years	28,597.32
Simcoe	10 “	30,829.30
Springfield	8 “	3,740.86
Stamford twp.	9 “	31,012.66
Stouffville	7 “	4,785.73
Stratford	14 years	240,367.83
Strathroy	11 “	33,528.21
Sutton	7 “	4,060.18
Tavistock	9 “	16,770.46
Tecumseh	8 “	8,009.09
Thamesford	11 “	6,913.75
Thamesville	10 “	6,720.68
Thedford	7 “	3,210.91
Thorndale	11 “	3,887.82
Thorold	8 “	26,298.75
Tilbury	10 “	17,424.77
Tillsonburg	14 “	34,639.54
Toronto	14 “	6,978,210.21
Toronto twp.	12 “	29,725.55
Walkerville	11 “	247,727.70
Wallaceburg	10 “	73,888.74
Wardsville	7 “	1,182.11
Waterdown	14 “	9,772.03
Waterford	10 “	11,976.35
Waterloo	14 “	102,032.46
Watford	8 “	7,854.84
Welland	8 “	103,773.80
Wellesley	9 “	7,424.00
West Lorne	9 “	13,317.15
Weston	14 “	90,084.03
Wheatley	7 “	3,747.14
Windsor	11 “	736,357.69
Woodbridge	11 “	11,269.16
Woodstock	14 “	146,506.22
Wyoming	9 “	3,122.44
York East twp.	6 “	61,766.45
York North twp.	7 “	21,977.44
Zurich	8 “	5,396.71
Sandwich, Windsor & Amherstburg Ry.	8 “	62,635.68
Toronto Transportation Commission	9 “	110,183.96
Windsor, Essex & Lake Shore Ry.		2,176.82

NIAGARA SYSTEM—Continued *SINKING FUND*

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder as part of the cost of power delivered thereto, together with its proportionate share of other sinking funds provided out of other revenues of the system and interest allowed thereon to October 31, 1930

Rural power district	Period of years ending Oct. 31, 1930	Amount	Rural power district	Period of years ending Oct. 31, 1930	Amount
		$ c.			$ c.
Acton R.P.D.	3 years	61.55	**Listowel** R.P.D.	4 years	1,807.48
Ailsa Craig R.P.D.	1 “	0.87	**London** R.P.D.	8 “	29,367.31
Alvinston R.P.D.	2 “	27.29	**Lucan** R.P.D.	5 “	1,552.40
Amherstburg R.P.D.	7 “	15,389.19	**Lynden** R.P.D.	9 “	4,599.75
Aylmer R.P.D.	9 “	6,206.28	**Markham** R.P.D.	8 “	6,412.57
Ayr R.P.D.	5 “	533.35	**Merlin** R.P.D.	2 “	1,661.00
Baden R.P.D.	9 “	5,842.36	**Milton** R.P.D.	6 “	2,162.47
Beamsville R.P.D.	8 “	19,618.06	**Milverton** R.P.D.	4 “	820.64
Belle River R.P.D.	8 “	7,178.18	**Mitchell** R.P.D.	5 “	3,244.50
Blenheim R.P.D.	7 “	2,940.95	**Newmarket** R.P.D.	7 “	4,288.24
Bond Lake R.P.D.	7 “	12,872.81	**Niagara** R.P.D.	9 “	11,934.56
Bothwell R.P.D.	7 “	2,935.15	**Norwich** R.P.D.	6 “	10,272.73
Brampton R.P.D.	7 “	2,013.60	**Oil Springs** R.P.D.	5 “	1,315.07
Brant R.P.D.	9 “	7,743.42	**Palmerston** R.P.D.	4 “	117.35
Brigden R.P.D.	4 “	1,113.27	**Petrolia** R.P.D.	8 “	500.86
Burford R.P.D.	4 “	1,668.59	**Preston** R.P.D.	9 “	18,212.70
Caledonia R.P.D.	6 “	3,445.35	**Ridgetown** R.P.D.	9 “	8,496.34
Chatham R.P.D.	9 “	9,642.15	**St. Jacobs** R.P.D.	8 “	5,671.80
Chippawa R.P.D.	9 “	4,116.54	**St. Marys** R.P.D.	3 “	2,891.92
Clinton R.P.D.	3 “	1,484.38	**St. Thomas** R.P.D.	8 “	12,346.29
Delaware R.P.D.	8 “	7,347.05	**Saltfleet** R.P.D.	9 “	20,935.82
Dorchester R.P.D.	9 “	11,913.80	**Sandwich** R.P.D.	9 “	27,028.85
Dresden R.P.D.	3 “	127.28	**Sarnia** R.P.D.	8 “	11,962.35
Drumbo R.P.D.	9 “	3,079.39	**Scarboro** R.P.D.	7 “	3,926.71
Dundas R.P.D.	9 “	10,235.40	**Seaforth** R.P.D.	3 “	752.12
Dunnville R.P.D.	3 “	122.34	**Simcoe** R.P.D.	8 “	3,068.16
Dutton R.P.D.	5 “	1,157.55	**Stamford** R.P.D.	9 “	3,287.31
Elmira R.P.D.	5 “	585.26	**Stratford** R.P.D.	7 “	5,117.49
Elora R.P.D.	5 “	2,246.31	**Strathroy** R.P.D.	4 “	783.40
Essex R.P.D.	6 “	4,890.70	**Streetsville** R.P.D.	8 “	5,806.69
Exeter R.P.D.	8 “	6,441.88	**Tavistock** R.P.D.	8 “	3,259.01
Forest R.P.D.	4 “	275.66	**Thamesville** R.P.D.	3 “	1,241.93
Galt R.P.D.	9 “	2,951.82	**Tilbury** R.P.D.	7 “	1,957.41
Georgetown R.P.D.	6 “	1,747.06	**Tillsonburg** R.P.D.	7 “	11,869.45
Goderich R.P.D.	6 “	1,515.17	**Wallaceburg** R.P.D.	8 “	6,536.09
Grantham R.P.D.	6 “	12,082.46	**Walsingham** R.P.D.	4 “	1,808.65
Guelph R.P.D.	6 “	3,124.71	**Walton** R.P.D.	6 “	1,684.77
Haldimand R.P.D.	6 “	1,516.61	**Waterdown** R.P.D.	8 “	7,778.69
Harriston R.P.D.	1 “	36.22	**Waterford** R.P.D.	7 “	2,358.54
Harrow R.P.D.	7 “	4,977.14	**Watford** R.P.D.	1 “	87.23
Ingersoll R.P.D.	9 “	4,800.18	**Welland** R.P.D.	9 “	29,843.10
Jordan R.P.D.	9 “	3,843.16	**Woodbridge,** R.P.D.	8 “	14,977.97
Keswick R.P.D.	7 “	6,523.52	**Woodstock** R.P.D.	9 “	13,999.65
Kingsville R.P.D.	7 “	19,384.75			$16,534,198.80

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*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

NIAGARA SYSTEM

Reserve for Sinking Fund—October 31, 1930

Total provision for sinking fund to October 31, 1929		$14,172,354.72
Add:		
Sinking fund provided on rural lines transferred to rural power districts to October 31, 1929		1,075.06
		$14,173,429.78
Deduct:		
Sinking fund on certain equipment sold	$38.00	
Sinking fund on the value of certain transmission lines transferred to rural power districts	691.59	
		729.59
		$14,172,700.19
Provided in the year ending October 31, 1930, in respect of:		
Advances by the Province for construction of transmission lines and stations	$435,859.03	
Advances by the Province for construction of rural power districts	44,370.01	
Advances by the Province for construction of pipe line to Ontario Power generating station	36,923.85	
Advances by the Province for construction of Queenston-Chippawa development	795,984.23	
Bonds issued and assumed by the Commission in connection with the purchase of the properties of the Ontario Power Company, Toronto Power Company, Essex system and Thorold system	481,453.90	
Interest at 4% per annum on amounts standing at the credit of the reserve accounts	566,907.59	
		2,361,498.61
		$16,534,198.80

NIAGARA SYSTEM—RURAL LINES

Statement showing Interest, Sinking Fund, Renewals and Contingencies charged by the Commission to the Municipalities which operate the respective Rural Lines, for the year ending October 31, 1930

Operated by	Capital cost	Interest	Sinking fund	Renewals	Contingencies	Total interest, sinking fund, renewals and contingencies charged
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Milton	15,909.84	789.13	286.38	318.20	159.10	1,552.81
Welland	19,617.60	823.94	353.12	392.35	196.18	1,765.59
Totals	35,527.44	1,613.07	639.50	710.55	355.28	3,318.40

NIAGARA SYSTEM—RURAL LINES

Statement showing the total Sinking Fund paid in respect of each line together with interest allowed thereon to October 31, 1930

Lines operated by	Period of years ending October 31, 1930	Amount
		$ c.
Milton	17 years	2,256.86
Welland	18 "	8,455.42
Total	....	10,712.28

GEORGIAN BAY

Operating Account for Year

COST OF OPERATION AS PROVIDED FOR UNDER THE TERMS OF THE POWER COMMISSION ACT

Power purchased		$53,201.27
Costs of operation and maintenance, including the proportion of administrative expenses chargeable to the operation of the system:		
Generation and transmission equipment	$336,357.03	
Rural power districts	23,704.25	
		360,061.28
Interest on capital investment in:		
Generation and transmission equipment	$284,722.95	
Rural power districts	14,705.71	
		299,428.66
Provision for renewal of:		
Generation and transmission equipment	$80,531.01	
Rural power districts	11,844.29	
		92,375.30
Provision for obsolescence and contingencies in respect of:		
Generation and transmission equipment	$23,850.93	
Rural power districts	11,844.29	
		35,695.22
Provision for sinking fund:		
By charges included in the cost of power delivered to municipalities and rural power districts	$59,397.99	
By charges against contracts with private companies which purchase power	6,577.71	
By charges included in the cost of distribution of power within rural power districts	3,368.40	
		69,344.10
		$910,105.83

GEORGIAN BAY

Statement showing the amount to be paid by each Municipality as the Cost (under the received by the Commission from each Municipality on account of such cost, upon ascertainment (by annual adjustment) of the actual cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1930	To Oct. 31 1930				Operating maintenance and administrative expenses	Interest
	$ c.	$ c.	$ c.		$ c.	$ c.	$ c.
Alliston	......	60.00	88,272.22	189.4	463.24	3,636.03	3,817.45
Arthur	......	75.00	63,963.13	107.8	263.66	2,640.72	2,771.41
Barrie	......	30.00	509,866.18	1,948.5	4,765.72	25,516.16	19,802.81
Beaverton	38.00	37.00	66,633.49	253.8	620.75	3,608.56	2,722.46
Beeton	......	80.00	62,891.31	109.9	268.80	2,413.18	2,785.34
Bradford	......	65.00	72,903.23	134.0	327.74	3,003.75	3,155.72
Brechin	55.00	50.00	18,999.05	49.8	121.80	1,205.94	793.72
Cannington	44.00	40.00	43,490.51	150.6	368.34	2,321.79	1,783.92
Chatsworth	48.00	45.00	13,584.27	44.1	107.86	990.14	563.48
Chesley	......	43.00	144,856.22	437.3	1,069.57	6,817.94	5,962.36

SYSTEM

ending October 31st, 1930

REVENUE FOR PERIOD

Collected from municipalities	$733,242.04	
Power sold to private companies	83,516.59	
Collected from customers in rural power districts	109,933.71	
		$926,692.34
Add:		
Amounts due by certain municipalities, being the difference between the sums paid and the cost of power supplied to them in the year	$13,932.65	
Amounts due by municipalities comprising certain rural power districts, being the difference between the revenue collected from customers therein and the cost of power supplied to them in the year	7,875.26	
		21,807.91
		$948,500.25
Deduct:		
Amounts collected from certain municipalities in excess of the sums required to be paid by them for power supplied in the year	$34,738.03	
Amounts collected from customers in certain rural power districts in excess of the cost of power delivered thereto	3,656.39	
		38,394.42
Revenue		$910,105.83
		$910,105.83

SYSTEM *COST OF POWER*

Power Commission Act) of Power supplied to it by the Commission—the amount —and the amount remaining to be credited or charged to each Municipality of power supplied to it in the year ending October 31, 1930

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,304.88	280.08	883.45	16.03	10,401.16	11,361.20	960.04	....
1,011.73	200.19	644.48	9.13	7,541.32	8,085.59	544.27	....
4,887.52	1,694.52	4,594.17	164.94	61,425.84	58,455.75	....	2,970.09
706.34	232.22	635.12	21.48	8,546.93	9,426.66	879.73	....
1,009.28	193.90	645.37	9.30	7,325.17	8,793.95	1,468.78	....
1,124.72	232.00	731.14	11.35	8,586.42	8,712.28	125.86	....
256.39	67.23	186.64	4.22	2,635.94	2,531.26	....	104.68
495.97	153.51	417.33	12.75	5,553.61	6,127.18	573.57	....
162.00	52.96	131.03	3.73	2,011.20	2,008.45	....	2.75
1,762.41	487.01	1,381.46	37.02	17,517.77	18,804.89	1,287.12	....

GEORGIAN BAY

Statement showing the amount to be paid by each Municipality as the Cost (under the received by the Commission from each Municipality on account of such cost, upon ascertainment (by annual adjustment) of the actual cost of

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1930	To Oct. 31 1930				Operating maintenance and administrative expenses	Interest
	$ c.	$ c.	$ c.		$ c.	$ c.	$ c.
Coldwater	40.00	36.00	64,963.33	241.2	589.94	3,138.09	2,678.40
Collingwood	......	40.00	477,315.27	1,631.6	3,990.63	28,730.20	19,682.24
Cookstown	......	55.00	19,352.63	46.1	112.75	1,178.66	825.31
Creemore	58.00	55.00	41,337.93	103.6	253.39	2,214.54	1,752.16
Dundalk	40.00	37.00	41,466.02	157.9	386.20	2,426.46	1,696.72
Durham	......	33.00	127,896.62	503.9	1,232.46	7,306.37	5,217.83
Elmvale	......	36.00	44,630.17	161.1	394.02	2,740.29	1,824.53
Elmwood	50.00	48.00	16,271.72	45.9	112.26	875.61	687.13
Flesherton	45.00	43.00	24,336.24	78.5	192.00	1,338.96	1,013.01
Grand Valley	60.00	58.00	43,590.24	98.3	240.43	1,954.52	1,863.47
Gravenhurst	25.00	24.00	69,015.74	548.2	....	6,657.45	3,084.59
Hanover	......	37.00	290,197.24	1,013.1	2,477.88	12,719.23	11,966.69
Holstein	......	90.00	14,033.65	17.0	41.58	394.73	639.95
Huntsville	......	27.00	162,584.57	1,005.2	12.72	11,620.39	7,331.28
Kincardine	65.00	60.00	185,286.14	390.8	955.83	7,238.63	7,998.44
Kirkfield	......	60.00	13,171.29	30.5	74.60	516.51	557.64
Lucknow	70.00	65.00	95,299.72	186.2	455.42	4,001.78	4,130.47
Markdale	......	36.00	35,947.98	134.8	329.70	2,111.81	1,476.60
Meaford	42.00	40.00	122,788.07	358.7	877.32	4,951.62	5,185.73
Midland	......	26.00	782,168.96	3,227.2	7,893.21	35,364.73	31,676.47
Mount Forest	45.00	40.00	108,827.89	332.9	814.22	4,944.80	4,549.92
Muskoka twp	......	......	10,752.71	26.8	65.55	592.67	459.59
Neustadt	......	70.00	32,083.31	33.9	82.91	713.94	1,412.54
Orangeville	48.00	45.00	161,153.16	485.3	1,186.97	7,440.02	6,765.75
Owen Sound	......	30.00	773,027.38	3,185.3	7,790.73	38,865.96	31,405.02
Paisley	60.00	58.00	54,003.78	126.6	309.64	2,571.79	2,284.41
Penetanguishene	......	35.00	166,969.12	583.9	1,428.12	7,096.19	6,838.22
Port McNicoll	......	33.00	23,542.80	88.5	216.46	1,107.76	966.73
Port Perry	58.00	50.00	74,104.79	182.1	445.39	3,119.96	3,130.97
Priceville	......	85.00	7,385.69	13.5	33.02	483.80	320.99
Ripley	85.00	80.00	33,950.66	50.6	123.76	1,508.73	1,487.02
Shelburne	......	41.00	59,104.35	192.8	471.56	3,129.82	2,451.67
Stayner	......	44.00	41,852.25	145.9	356.85	2,876.41	1,718.65
Sunderland	63.00	55.00	24,578.38	58.2	142.35	1,080.72	1,034.05
Tara	93.00	80.00	25,682.42	64.6	158.00	1,308.67	1,225.70
Teeswater	......	58.00	45,234.79	91.4	223.55	1,826.45	1,947.56
Thornton	......	90.00	14,602.40	24.8	60.66	615.73	635.04
Tottenham	......	96.00	46,203.88	65.8	160.94	1,737.57	2,059.70
Uxbridge	60.00	55.00	77,436.04	177.7	434.64	3,201.88	3,276.12
Victoria Harbor	42.00	40.00	21,697.96	69.8	170.72	1,196.80	901.41
Waubaushene	......	40.00	11,737.34	38.8	94.90	739.66	485.93
Windermere	......	140.00	20,121.32	12.3	30.08	427.27	376.20
Wingham	65.00	60.00	173,077.64	332.5	813.24	6,282.11	7,497.88
Woodville	58.00	53.00	22,392.56	54.9	134.28	912.29	937.85

SYSTEM *COST OF POWER*

Power Commission Act) of Power supplied to it by the Commission the amount —and the amount remaining to be credited or charged to each Municipality power supplied to it in the year ending October 31, 1930

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
700.67	239.08	619.06	20.42	7,985.66	8,825.23	839.57	....
5,495.44	1,643.70	4,585.57	138.12	64,265.90	65,262.63	996.73	....
272.46	68.41	191.27	3.90	2,652.76	2,532.72	....	120 04
569.55	132.56	407.32	8.77	5,338.29	5,755.72	417.43	....
437.46	150.69	394.09	13.37	5,504.99	5,940.38	435.39	....
1,307.38	465.71	1,210.96	42.66	16,783.37	16,629.21	....	154.16
492.79	163.17	426.54	13.64	6,054.98	5,797.95	....	257.03
211.52	60.92	158.97	3.89	2,110.30	2,219.55	109.25	....
258.39	85.08	235.10	6.65	3,129.19	3,402.23	273.04	....
627.85	144.10	432.51	8.32	5,271.20	5,733.67	462.47	....
665.05	295.79	715.44	46.40	11,464.72	13,262.24	1,797.52	....
3,290.09	1,060.70	2,782.97	85.76	34,383.32	37,513.65	3,130.33	....
248.40	41.53	148.41	1.44	1,516.04	1,530.00	13.96	....
1,921.94	621.50	1,706.34	85.09	23,299.26	27,140.00	3,840.74	....
2,734.99	589.07	1,845.29	33.08	21,395.33	23,762.65	2,367.32	....
185.31	42.17	129.20	2.58	1,508.01	1,832.00	323.99	....
1,442.68	306.09	952.69	15.76	11,304.89	12,287.81	982.92	....
349.05	127.06	342.21	11.41	4,747.84	4,854.00	106.16	....
1,565.56	416.28	1,196.30	30.36	14,223.17	14,482.45	259.28	....
7,640.79	2,695.14	7,369.99	273.19	92,913.52	83,906.54	....	9,006.98
1,350.40	365.59	1,056.25	28.18	13,109.36	13,623.20	513.84	....
147.50	35.05	105.45	2.27	1,408.08	1,379.53	....	28.55
557.56	91.43	328.71	2.87	3,189.96	2,316.36	....	873.60
2,018.66	539.35	1,566.16	41.08	19,557.99	22,105.21	2,547.22	....
7,538.38	2,722.81	7,272.61	269.64	95,865.15	95,559.91	....	305.24
751.57	171.16	527.01	10.72	6,626.30	7,383.29	756.99	....
1,891.47	579.58	1,601.45	49.43	19,484.46	20,437.16	952.70	....
251.40	86.89	224.15	7.49	2,860.88	2,919.65	58.77	....
1,013.84	234.47	722.65	15.41	8,682.69	9,325.76	643.07	....
114.21	32.69	74.13	1.14	1,059.98	1,145.33	85.35	....
553.11	103.30	343.69	4.28	4,123.89	4,092.31	....	31.58
703.62	214.86	570.42	16.32	7,558.27	7,902.69	344.42	....
474.81	145.77	401.31	12.35	5,986.15	6,421.02	434.87	....
347.09	80.15	243.11	4.93	2,932.40	3,281.83	349.43	....
414.17	99.44	285.05	5.47	3,496.50	5,311.56	1,815.06	....
677.68	165.85	451.60	7.74	5,300.43	5,303.10	2.67	....
230.40	51.29	147.03	2.10	1,742.25	2,229.00	486.75	....
775.26	140.55	476.42	5.57	5,356.01	6,319.20	963.19	....
1,086.36	246.07	756.28	15.05	9,016.40	9,919.86	903.46	....
260.87	78.34	209.74	5.91	2,823.79	2,816.88	....	6.91
138.46	46.63	113.14	3.28	1,622.00	1,550.96	....	71.04
139.51	27.86	86.21	1.04	1,088.17	1,719.66	631.49	....
2,635.70	563.11	1,732.55	28.15	19,552.74	20,244.66	691.92	....
312.05	72.36	221.23	4.65	2,594.71	2,956.07	361.36	....

GEORGIAN BAY

Statement showing the amount to be paid by each Municipality as the Cost (under the received by the Commission from each Municipality on account of such cost, upon ascertainment (by annual adjustment) of the actual cost of

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1930	To Oct. 31 1930				Operating maintenance and administrative expenses	Interest
Rural Power Districts			$ c.		$ c.	$ c.	$ c.
Alliston R.P.D.—Tossorontio, Essa and Tecumseh twps			17,493.15	41.2	100.77	683.25	747.21
Arthur R.P.D.—Luther E. twp			487.78	1.1	2.69	19.04	21.11
Bala R.P.D.—Wood and Medora twps.			12,199.53	44.6	109.08	519.00	469.33
Barrie R.P.D.—Vespra, Oro and Innisfil twps			54,277.65	154.0	376.66	2,389.39	2,004.08
Beaumaris R.P.D.—Wood, Medora and Monck twps			26,567.20	95.2	232.84	1,377.38	1,105.11
Beaverton R.P.D.—Mara twp			340.27	0.9	2.20	20.59	14.58
Bradford R.P.D.—King twp			1,795.36	3.3	8.07	65.73	78.51
Buckskin R.P.D.—Matchedash, Wood and Medora twps			6,060.42	17.4	42.56	254.70	257.29
Cannington No. 1, R.P.D.—Brock and Eldon twps			5,618.64	17.3	42.31	254.93	234.06
Cannington No. 2, R.P.D.—Brock twp			6,675.64	20.3	49.65	309.21	277.70
Chatsworth R.P.D.—Holland twp			3,889.83	9.4	22.99	273.02	167.36
Elmvale R.P.D.—Flos, Medonte, Vespra and Oro twps			8,719.19	20.4	49.89	345.99	284.98
Flesherton R.P.D.—Artemesia twp			1,825.46	4.9	11.98	62.49	76.55
Georgina R.P.D.—Georgina twp			8,816.55	32.3	79.00	587.05	364.68
Hawkestone R.P.D.—Oro and Orillia twps			2,784.83	10.6	259.13	133.60	94.37
Innisfil R.P.D.—Innisfil and Gwillimbury W. twps			45,497.53	99.7	243.85	1,865.78	1,800.57
Mariposa R.P.D.—Reach, Mariposa and Brock twps			36,062.30	110.0	269.04	1,577.75	1,503.01
Markdale R.P.D. — Artemesia and Glenelg twps			203.25	0.9	2.20	9.86	6.95
Medonte R.P.D.—Tay twp			498.01	1.7	4.16	26.78	20.89
Nottawasaga R.P.D. — Nottawasaga twp			8,582.66	27.7	67.75	481.38	353.14
Orangeville R.P.D. — Garafraxa E. and Amaranth twps			8,478.75	24.3	59.43	360.60	358.81
Port Perry R.P.D.—Reach, Cartwright, Scugog and Manvers twp			26,889.69	65.0	158.98	1,494.43	1,134.06
Shelburne R.P.D.—Mulmur and Melancthon twps			1,989.93	4.6	11.25	252.28	84.96
Sparrow Lake R.P.D.—Rama, Orillia N., Morrison and Matchedash twps			16,772.48	71.6	175.12	859.00	678.95
Tara R.P.D.—Derby, Keppel, Amabel, and Arran twps			13,963.80	41.7	101.99	844.42	610.25
Thornton R.P.D.—Essa twp			1,798.20	2.5	6.11	53.51	62.93
Utterson R.P.D.—Stephenson, Wood and Medora twps			13,289.94	12.4	30.33	236.58	278.71

SYSTEM *COST OF POWER*

Power Commission Act) of Power supplied to it by the Commission—the amount
—and the amount remaining to be credited or charged to each Municipality
power supplied to it in the year ending October 31, 1930

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
244.07	56.58	171.23	3.48	2,006.59	2,006.59	see page	209
7.03	1.62	4.84	0.09	56.42	56.42	"	"
107.88	40.78	107.55	....	1,353.62	1,353.62	"	"
571.90	179.43	460.82	13.04	5,995.32	5,995.32	"	"
295.08	103.79	254.10	8.06	3,376.36	3,376.36	"	"
4.58	1.20	3.34	0.07	46.56	46.56	"	"
27.70	5.71	18.00	0.28	204.00	204.00	"	"
78.02	25.27	59.12	1.47	718.43	718.43	"	"
69.48	19.20	54.52	1.46	675.96	675.96	"	"
83.12	22.83	64.82	1.72	809.05	809.05	see page	211
54.42	16.39	38.40	0.80	573.38	573.38	"	"
84.72	26.65	65.77	1.73	859.73	859.73	"	"
22.26	6.85	17.90	0.41	198.44	198.44	"	"
96.61	31.24	84.37	2.73	1,245.68	1,245.68	"	"
20.20	8.56	21.63	0.90	538.39	538.39	"	"
588.90	141.73	413.46	8.44	5,062.73	5,062.73	"	"
444.84	124.58	348.30	9.31	4,276.83	4,276.83	"	"
1.60	0.75	1.90	0.08	23.34	23.34	"	"
5.74	1.96	4.79	0.14	64.46	64.46	"	"
102.88	30.31	82.90	2.34	1,120.70	1,120.70	"	"
109.26	29.05	82.73	2.06	1,001.94	1,001.94	"	"
366.72	85.01	260.50	5.51	3,505.21	3,505.21	"	"
28.38	7.56	19.72	0.39	404.54	404.54	"	"
157.76	63.20	157.32	6.06	2,097.41	2,097.41	"	"
184.62	52.89	140.45	3.53	1,938.15	1,938.15	"	"
22.46	4.98	14.42	0.21	164.62	164.62	"	"
96.88	22.25	63.87	1.05	729.67	729.67	"	"

GEORGIAN BAY

Statement showing the amount to be paid by each Municipality as the Cost (under the received by the Commission from each Municipality on account of such cost, upon ascertainment (by annual adjustment) of the actual cost of

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1930	To Oct. 31 1930				Operating maintenance and administrative expenses	Interest
			$ c.		$ c.	$ c.	$ c.
Uxbridge R.P.D.—Uxbridge, Scott, Georgina, Reach and Brock twps...			26,633.16	60.4	147.72	1,113.86	1,132.48
Walkerton Quarry R.P.D.—Brant twp..............................			725.03	1.5	3.67	84.57	30.49
Wasaga R.P.D.—Nottawasaga, Sunnidale and Flos twps................			27,935.11	89.5	218.90	1,629.24	1,160.44
Wroxeter R.P.D.—Howick, Turnberry and Morris twps..................			22,647.68	41.6	101.75	908.65	990.17
Totals—Municipalities..............			5,786,635.76	19,843.9	44,748.36	283,415.79	239,616.25
Totals—Rural power districts........			409,519.02	1,128.0	2,992.07	19,094.06	16,403.73
Totals—Companies and Distributing systems........................			744,067.99	2,232.7	5,460.84	33,847.18	28,702.97
			6,940,222.77				
Non-operating capital..............			57,530.83				
Grand Totals..................			6,997,753.60	23,204.6	53,201.27	336,357.03	284,722.95

GEORGIAN BAY SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain districts or charged to annual adjustment) of the actual costs

District and municipalities comprised therein:	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	$ c.	$ c.	$ c.	$ c.
Alliston R.P.D.—Tossorontio, Essa and Tecumseh twps..............................	35,012.83	17,255.13	17,757.70	2,006.59
Arthur R.P.D.—Luther E. twp..............	*1,284.39	595.50	688.89	56.42
Bala R.P.D.—Wood and Medora twps........	*39,675.04	18,952.13	20,722.91	1,353.62
Barrie R.P.D.—Vespra, Oro and Innisfil twps..	75,659.23	37,829.62	37,829.61	5,995.32
Beaumaris R.P.D.—Wood, Medora and Monck twps..................................	49,003.83	24,501.92	24,501.91	3,376.36
Beaverton R.P.D.—Mara twp...............	6,466.64	3,233.32	3,233.32	46.56
Beeton R.P.D.—Tecumseh twp..............	565.92	282.96	282.96	....
Bradford R.P.D.—King twp.................	1,483.85	741.92	741.93	204.00
Buckskin R.P.D.—Matchedash, Wood and Medora twps...............................	3,620.34	....	3,620.34	718.43
Cannington No. 1, R.P.D.—Brock and Eldon twps..................................	*6,934.86	2,929.13	4,005.73	675.96

Note.—Items marked * include portions of transmission lines used for purposes of rural power districts.

SYSTEM *COST OF POWER*

Power Commission Act) of Power supplied to it by the Commission the amount —and the amount remaining to be credited or charged to each Municipality power supplied to it in the year ending October 31, 1930

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
374.82	84.70	260.00	5.11	3,118.69	3,118.69	see page	211
10.77	2.84	7.23	0.13	139.70	139.70	"	"
336.49	100.72	269.99	7.57	3,723.35	3,723.35	"	"
349.64	75.41	227.23	3.52	2,656.37	2,656.37	"	"
67,522.69	19,836.97	55,616.77	1,679.83	712,436.66	733,242.04	34,738.03	13,932.65
4,948.83	1,374.04	3,781.22	91.69	48,685.64	48,685.64	....	....
8,059.49	2,639.92	6,577.71	(1,771.52)	83,516.59	83,516.59	....	....
80,531.01	23,850.93	65,975.70	....	844,638.89	865,444.27	....	....

RURAL POWER DISTRICTS *RURAL OPERATING*

District, the revenues collected from (or charged to) customers within each district, the Municipalities comprising certain other districts upon ascertainment (by in the year ending October 31, 1930.

Distribution cost and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and and administration	Interest on capital investment	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
447.24	423.68	355.58	355.58	95.32	3,683.99	3,854.23	170.24	....
9.41	29.02	23.40	23.40	6.65	148.30	166.87	18.57	....
2,374.67	656.96	542.79	542.79	150.56	5,621.39	5,748.47	127.08	....
2,332.72	1,151.32	1,002.27	1,002.27	263.84	11,747.74	11,655.41	....	92.33
1,916.35	1,020.35	888.26	888.26	233.84	8,323.42	8,006.94	....	316.48
71.18	37.15	32.34	32.34	8.52	228.09	107.52	....	120.57
1.40	12.94	11.32	11.32	2.98	39.96	39.96	....	....
9.11	34.09	29.68	29.68	7.82	314.38	242.35	....	72.03
119.55	162.62	70.78	70.78	37.27	1,179.43	969.94	....	209.49
214.56	180.37	135.93	135.93	41.33	1,384.08	1,558.54	174.46	....

GEORGIAN BAY SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain districts or charged to annual adjustment) of the actual costs

District and municipalities comprised therein:	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	$ c.	$ c.	$ c.	$ c.
Cannington No. 2, R.P.D.—Brock twp	10,248.48	4,349.52	5,898.96	809.05
Chatsworth R.P.D.—Holland twp	1,410.01	705.01	705.00	573.38
Elmvale R.P.D.—Flos, Medonte, Vespra and Oro twps	22,714.95	11,225.15	11,489.80	859.73
Flesherton R.P.D.—Artemesia twp	2,871.75	1,435.88	1,435.87	198.44
Georgina R.P.D.—Georgina twp	17,512.92	8,756.46	8,756.46	1,245.68
Hawkestone R.P.D.—Oro and Orillia twps	39,356.90	19,678.45	19,678.45	538.39
Holstein R.P.D.—Egremont twp	283.84	141.92	141.92	....
Innisfil R.P.D.—Innisfil and Gwillimbury W. twps	59,052.99	29,526.50	29,526.49	5,062.73
Lucknow R.P.D.—Kinloss twp	615.03	307.51	307.52	....
Mariposa R.P.D.—Reach, Mariposa and Brock twps	68,235.15	34,117.58	34,117.57	4,276.83
Markdale R.P.D.—Artemesia and Glenelg twps.	*1,725.33	783.29	942.04	23.34
Meaford R.P.D.—St. Vincent twp	1,272.15	636.07	636.08	....
Medonte R.P.D.—Tay twp	4,209.16	2,104.58	2,104.58	64.46
Neustadt R.P.D.—Bentinck twp	513.09	256.54	256.55	....
Nottawasaga R.P.D.—Nottawasaga twp	16,375.60	8,187.80	8,187.80	1,120.70
Orangeville R.P.D.—Garafraxa E. and Amaranth twps	13,277.84	6,638.92	6,638.92	1,001.94
Port Perry R.P.D.—Reach, Cartwright, Scugog and Manvers twps	62,786.98	31,393.49	31,393.49	3,505.21
Ripley R.P.D.—Kinloss twp	395.67	197.83	197.84	....
Shelburne R.P.D.—Mulmur and Melancthon twps	*4,751.18	1,925.48	2,825.70	404.54
Sparrow Lake R.P.D.—Rama, Orillia N., Morrison and Matchedash twps	44,080.64	22,040.32	22,040.32	2,097.41
Tara R.P.D.—Derby, Kippel, Amabel and Arran twps	*28,554.68	14,090.57	14,464.11	1,938.15
Thornton R.P.D.—Essa twp	9,646.64	4,823.32	4,823.32	164.62
Utterson R.P.D.—Stephenson, Wood and Medora twps	18,246.60	9,123.30	9,123.30	729.67
Uxbridge R.P.D.—Uxbridge, Scott, Georgina, Reach and Brock twps	66,817.81	33,408.90	33,408.91	3,118.69
Walkerton Quarry R.P.D.—Brant twp	2,285.90	1,142.95	1,142.95	139.70
Wasaga R.P.D.—Nottawasaga, Sunnidale and Flos twps	40,218.60	....	40,218.60	3,723.35
Wroxeter R.P.D.—Howich, Turnberry and Morris twps	29,238.97	14,213.35	15,025.62	2,656.37
	786,405.79		418,873.47	
Non-operating capital	44,285.85		44,285.85	
Totals	830,691.64	367,532.32	463,159.32	48,685.64

NOTE.—Items marked * include portions of transmission lines used for purposes of rural power districts.

RURAL POWER DISTRICTS *RURAL OPERATING*

District, the revenues collected from (or charged to) customers within each district, the Municipalities comprising certain other districts upon ascertainment (by in the year ending October 31, 1930.

Distribution cost and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and and administration	Interest on capital investment	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
423.53	246.46	183.56	183.56	56.48	1,902.64	2,171.51	268.87	....
88.70	31.48	27.40	27.40	7.21	755.57	832.50	76.93	....
468.36	160.06	134.04	134.04	36.68	1,792.91	1,656.79	....	136.12
110.19	64.18	55.87	55.87	14.71	499.26	487.92	....	11.34
566.03	398.82	347.19	347.19	91.40	2,996.31	3,110.15	113.84	....
288.55	224.49	195.43	195.43	51.45	1,493.74	776.30	....	717.44
1.93	3.66	3.19	3.19	0.84	12.81	12.81	....	....
1,905.10	1,132.05	985.50	985.50	259.44	10,330.32	9,309 22	....	1,021.10
3.49	14.05	12.30	12.30	3.24	45.38	45.38	....	....
2,329.96	1,402.64	1,221.06	1,221.06	321.44	10,772.99	11,599.45	826.46	....
19.51	38.68	30.50	30.50	8.86	151.39	174.86	23.47	....
6.04	29.19	25.45	25.45	6.70	92.83	92.83	....	....
42.67	32.23	28.06	28.06	7.39	202.87	178.26	....	24.61
1.40	11.73	10.25	10.25	2.70	36.33	36.33	....	....
674.95	364.36	317.19	317.19	83.50	2,877.89	2,766.55	....	111.34
122.10	305.06	265.57	265.57	69.91	2,030.15	1,417.16	....	612.99
1,111.13	921.15	801.90	801.90	211.10	7,352.39	6,259.21	....	1,093.18
3.49	8.99	7.91	7.91	2.08	30.38	30.38	....	....
118.00	127.56	93.04	93.04	29.23	865.41	743.63	....	121.78
1,156.32	1,005.79	875.58	875.58	230.49	6,241.17	6,494.30	253.13	....
1,460.82	613.59	526.69	526.69	140.61	5,206.55	5,175.39	....	31.16
61.77	36.63	31.89	31.89	8.39	335.19	226.12	....	109.07
772.18	138.32	120.41	120.41	31.70	1,912.69	1,380.39	....	532.30
1,254.19	1,258.01	1,095.14	1,095.14	288.30	8,109.47	6,269.83	....	1,839.64
29.44	52.52	45.72	45.72	12.04	325.14	291.11	....	34.03
2,182.15	1,701.34	740.52	740.52	389.88	9,477.76	11,081.10	1,603.34	....
1,006.06	674.17	570.58	570.58	154.50	5,632.26	4,964.00	....	668.26
23,704.25	14,705.71	11,844.29	11,844.29	3,368.40	114,152.58	109,933.71	3,656.39	7,875.26

Net Debit.. $4,218.87

GEORGIAN BAY

Statement showing the net Credit or Charge to each Municipality in respect of power interest added during the year; also the net amount Credited or Charged October 31, 1930, and the accumulated amount standing as

Municipality	Date commenced operating	Net credit or charge at October 31, 1929		Cash receipts and payments on account of such credits and charges	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Alliston	June, 1918	1,289.67			1,289.67
Arthur	Dec., 1916	993.04			993.04
Barrie	April, 1913	1,120.54			1,120.54
Beaverton	Nov., 1914	1,329.23			1,329.23
Beeton	Aug., 1918	1,714.30			1,714.30
Bradford	Oct., 1918	739.93			739.93
Brechin	Jan., 1915	649.06			649.06
Cannington	Nov., 1914	1,226.09			1,226.09
Chatsworth	Dec., 1915	425.86			425.86
Chesley	July, 1916	2,162.59			2,162.59
Coldwater	Mar., 1913	1,416.71			1,416.71
Collingwood	Mar., 1913	5,393.06			5,393.06
Cookstown	May, 1918	351.93			351.93
Creemore	Nov., 1914	1,035.40			1,035.40
Dundalk	Dec., 1915	1,415.11			1,415.11
Durham	Dec., 1915	2,118.03			2,118.03
Elmvale	June, 1913	285.73			285.73
Elmwood	April, 1918	356.45			356.45
Flesherton	Dec., 1915	639.78			639.78
Grand Valley	Dec., 1916	944.50			944.50
Gravenhurst	Nov., 1915	1,936.95			1,936.95
Hanover	Sept., 1916	4,867.88			4,867.88
Holstein	May, 1916		4,131.81	800.00	
Huntsville	Sept., 1916	2,774.75			2,774.75
Kincardine	Mar., 1921	4,144.14			4,144.14
Kirkfield	June, 1920	255.87			255.87
Lucknow	Jan., 1921	2,106.69			2,106.69
Markdale	Mar., 1916	570.69			570.69
Meaford	Jan., 1924	2,432.33			2,432.33
Midland	July, 1911	44.27			44.27
Mount Forest	Dec., 1915	3,268.67			3,268.67
Muskoka township	June, 1929	265.96			
Neustadt	Dec., 1918		1,108.05		
Orangeville	July, 1916	4,388.26			4,388.26
Owen Sound	Dec., 1915	6,690.51			6,690.51
Paisley	Sept., 1923	769.42			769.42
Penetanguishene	July, 1911	2,499.41			2,499.41
Port McNicoll	Jan., 1915	289.63			289.63
Port Perry	Sept., 1922	2,336.27			2,336.27
Priceville	Mar., 1920		123.64		
Ripley	Jan., 1921	659.24			659.24
Shelburne	July, 1916	1,068.95			1,068.95
Stayner	Oct., 1913	842.01			842.01
Sunderland	Mar., 1914	736.83			736.83
Tara	Feb., 1918		1,793.69		

SYSTEM *CREDIT OR CHARGE*

supplied to it to October 31, 1929; the cash receipts and payments thereon, and to each Municipality in respect of power supplied in the year ending a Credit or Charge to each Municipality at October 31, 1930

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1930		Accumulated amount standing as a credit or charge on October 31, 1930	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
25.83		960.04		985.87	
15.34		544.27		559.61	
17.93			2,970.09		2,952.16
17.63		879.73		897.36	
24.99		1,468.78		1,493.77	
14.03		125.86		139.89	
10.45			104.68		94.23
21.70		573.57		595.27	
7.90			2.75	5.15	
37.12		1,287.12		1,324.24	
24.97		839.57		864.54	
86.88		996.73		1,083.61	
6.19			120.04		113.85
20.86		417.43		438.29	
20.86		435.39		456.25	
44.72			154.16		109.44
5.40			257.03		251.63
6.31		109.25		115.56	
12.87		273.04		285.91	
17.11		462.47		479.58	
27.80		1,797.52		1,825.32	
85.98		3,130.33		3,216.31	
	151.94	13.96			3,469.79
53.80		3,840.74		3,894.54	
87.13		2,367.32		2,454.45	
3.39		323.99		327.38	
30.85		982.92		1,013.77	
9.93		106.16		116.09	
44.12		259.28		303.40	
0.80			9,006.98		9,006.18
62.03		513.84		575.87	
10.64			28.55	248.05	
	44.32		873.60		2,025.97
79.72		2,547.22		2,626.94	
108.51			305.24		196.73
13.47		756.99		770.46	
33.14		952.70		985.84	
3.87		58.77		62.64	
44.46		643.07		687.53	
	4.95	85.35			43.24
11.74			31.58		19.84
15.69		344.42		360.11	
11.83		434.87		446.70	
11.37		349.43		360.80	
	71.75	1,815.06			50.38

GEORGIAN BAY

Statement showing the net Credit or Charge to each Municipality in respect of power interest added during the year; also the net amount Credited or Charged October 31, 1930, and the accumulated amount standing as

Municipality	Date commenced operating	Net credit or charge at October 31, 1929		Cash receipts and payments on account of such credits and charges	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Teeswater	Dec., 1920	405.87			405.87
Thornton	Nov., 1918	506.39			506.39
Tottenham	Oct., 1918		1,393.60	88.75	
Uxbridge	Sept., 1922	2,313.46			2,313.46
Victoria Harbor	July, 1914	435.69			435.69
Waubaushene	Dec., 1914	206.05			206.05
Windermere	June, 1930				
Wingham	Dec., 1920	4,540.16			4,540.16
Woodville	Nov., 1914	620.12			620.12
Rural Power Districts*					
Alliston R.P.D	Nov., 1929				
Arthur R.P.D	Dec., 1929				
Bala R.P.D	Jan., 1930				
Barrie R.P.D	Aug., 1923	929.65			
Beaumaris R.P.D	June, 1928		195.21		
Beaverton R.P.D	Aug., 1930				
Bradford R.P.D	Aug., 1929		21.39		
Buckskin R.P.D	July, 1928		284.56		
Cannington No. 1, R.P.D	May, 1924	554.59			
Cannington No. 2, R.P.D	May, 1924	662.83			
Chatsworth R.P.D	Dec., 1928	145.41			
Elmvale R.P.D	Jan., 1924	110.98			
Flesherton R.P.D	Feb., 1922		389.60		
Georgina R.P.D	Oct., 1926		801.68		
Hawkestone R.P.D	Aug., 1930				
Innisfil R.P.D	Feb., 1928	490.24			
Mariposa R.P.D	Sept., 1923	2,657.92			
Markdale R.P.D	July, 1924		427.32		
Medonte R.P.D	July, 1930				
Nottawasaga R.P.D	Jan., 1922	909.95			
Orangeville R.P.D	Aug., 1927		866.75		
Port Perry R.P.D	Dec., 1922		115.00		
Shelburne R.P.D	Feb., 1926		37.93		
Sparrow Lake R.P.D	Oct., 1925	2,778.88			
Tara R.P.D	Jan., 1925	942.17			
Thornton R.P.D	Aug., 1930				
Utterson R.P.D	June, 1930				
Uxbridge R.P.D	Sept., 1925	33.90			
Walkerton Quarry R.P.D	Feb., 1922	44.78			
Wasaga Beach R.P.D	July, 1923	4,887.63			
Wroxeter R.P.D	Feb., 1929		22.91		
		92,732.41	11,713.14	888.75	77,317.52

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*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

SYSTEM *CREDIT OR CHARGE*

supplied to it to October 31, 1929; the cash receipts and payments thereon, and to each Municipality in respect of power supplied in the year ending a Credit or Charge to each Municipality at October 31, 1930

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1930		Accumulated amount standing as a credit or charge on October 31, 1930	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
7.77		2.67		10.44	
6.71		486.75		493.46	
	53.56	963.19			395.22
36.17		903.46		939.63	
8.66			6.91	1.75	
4.07			71.04		66.97
		631.49		631.49	
88.33		691.92		780.25	
10.11		361.36		371.47	
		170.24		170.24	
		18.57		18.57	
		127.08		127.08	
37.19			92.33	874.51	
	7.81		316.48		519.50
			120.57		120.57
	0.86		72.03		94.28
	11.38		209.49		505.43
22.18		174.46		751.23	
26.51		268.87		958.21	
5.82		76.93		228.16	
4.44			136.12		20.70
	15.58		11.34		416.52
	32.07	113.84			719.91
			717.44		717.44
19.61			1,021.10		511.25
106.32		826.46		3,590.70	
	17.09	23.47			420.94
			24.61		24.61
36.40			111.34	835.01	
	34.67		612.99		1,514.41
	4.60		1,093.18		1,212.78
	1.52		121.78		161.23
111.16		253.13		3,143.17	
37.69			31.16	948.70	
			109.07		109.07
			532.30		532.30
1.36			1,839.64		1,804.38
1.79			34.03	12.54	
195.51		1,603.34		6,686.48	
	0.92		668.26		692.09
1,957.16	453.02	38,394.42	21,807.91	51,574.19	28,893.04

GEORGIAN BAY SYSTEM

Reserve for Renewals, October 31, 1930

Total provision for renewals to October 31, 1929	$962,864.98	
Deduct:		
Expenditures to October 31, 1929	83,426.65	
Balance brought forward, October 31, 1929		$879,438.33
Added during the year ending October 31, 1930:		
Amounts charged to municipalities and rural power districts as part of the cost of power delivered to them	$72,471.52	
Amount included in costs of distribution of power within rural power districts	11,844.29	
Provision against equipment employed in respect of contracts with private companies which purchased power	8,059.49	
Renewals reserve provided on second-hand equipment purchased	9,735.24	
Interest at 4% per annum on monthly balances at the credit of the account	35,280.77	
		137,391.31
		$1,016,829.64
Deduct:		
Expenditures during the year ending October 31, 1930		11,134.62
Balance carried forward October 31, 1930		$1,005,695.02

GEORGIAN BAY SYSTEM

Reserve for Obsolescence and Contingencies, October 31, 1930

Balance brought forward October 31, 1929		$270,696.96
Added during the year ending October 31, 1930:		
Amounts charged to municipalities and rural power districts as part of the cost of power delivered to them	$21,211.01	
Amounts included in the costs of distribution of power within rural power districts	11,844.29	
Provision against equipment employed in respect of contracts with private companies which purchased power	2,639.92	
Interest at 4% per annum on monthly balances at the credit of the account	10,827.88	
		46,523.10
		$317,220.06
Deduct:		
Expenditures during the year ending October 31, 1930		28,358.04
Balance carried forward October 31, 1930		$288,862.02

GEORGIAN BAY SYSTEM *SINKING FUND*

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder as part of the cost of power delivered thereto, together with its proportionate share of other sinking funds, provided out of other revenues of the system, and interest allowed thereon to October 31, 1930

Municipality	Period of years ending Oct. 31, 1930	Amount
		$ c.
Alliston	7 years	7,164.18
Arthur	9 “	7,439.70
Barrie	12 “	45,639.57
Beaverton	11 “	8,812.85
Beeton	7 “	5,777.68
Bradford	7 “	6,516.91
Brechin	11 “	3,625.15
Cannington	11 “	6,606.23
Chatsworth	10 “	1,517.60
Chesley	9 “	12,403.58
Coldwater	12 “	4,494.50
Collingwood	12 “	59,262.32
Cookstown	7 “	1,745.07
Creemore	11 “	4,611.22
Dundalk	10 “	4,239.26
Durham	10 “	12,347.13
Elmvale	12 “	6,552.86
Elmwood	7 “	1,259.30
Flesherton	10 “	2,392.84
Grand Valley	9 “	4,409.70
Gravenhurst	10 “	7,063.93
Hanover	9 “	32,402.77
Holstein	9 “	1,419.72
Huntsville	9 “	20,969.70
Kincardine	6 “	10,859.05
Kirkfield	6 “	1,151.76
Lucknow	6 “	5,432.41
Markdale	9 “	3,141.68
Meaford	6 “	7,014.03
Midland	12 “	88,335.01
Mount Forest	10 “	10,950.44
Muskoka twp	2 “	208.56
Neustadt	7 “	3,950.98
Orangeville	9 “	13,031.59
Owen Sound	10 “	62,857.87
Paisley	6 “	3,090.98
Penetanguishene	14 “	26,579.26
Port McNicoll	11 “	2,134.64
Port Perry	6 “	4,490.51
Priceville	6 “	493.45
Ripley	6 “	2,463.62
Shelburne	9 “	6,820.74
Stayner	12 “	5,822.33
Sunderland	11 “	4,689.94
Tara	7 “	3,314.63
Teeswater	6 “	4,292.74
Thornton	7 “	1,235.99
Tottenham	7 years	3,677.68
Uxbridge	6 “	4,779.75
Victoria Harbour	11 “	2,516.77
Waubaushene	11 “	1,411.28
Windermere	1 “	90.08
Wingham	6 “	12,148.58
Woodville	11 “	4,790.31
RURAL POWER DISTRICTS*		
Alliston R.P.D	1 years	279.50
Arthur R.P.D	1 “	11.84
Bala R.P.D	1 “	258.11
Barrie R.P.D	8 “	1,898.67
Beaumaris R.P.D	3 “	1,128.53
Beaverton R.P.D	1 “	12.14
Beeton R.P.D	5 “	13.32
Bradford R.P.D	2 “	35.69
Buckskin R.P.D	3 “	219.80
Cannington No. 1, R.P.D.	7 “	740.10
Cannington No. 2, R.P.D.	7 “	978.62
Chatsworth R.P.D	2 “	83.66
Elmvale R.P.D	7 “	437.90
Flesherton R.P.D	9 “	292.04
Georgina R.P.D	5 “	759.42
Hawkestone R.P.D	1 “	76.41
Holstein R.P.D	2 “	1.31
Innisfil R.P.D	3 “	1,303.11
Lucknow R.P.D	5 “	17.02
Mariposa R.P.D	8 “	3,515.44
Markdale R.P.D	7 “	231.25
Meaford R.P.D	1 “	13.18
Medonte R.P.D	1 “	12.71
Neustadt R.P.D	4 “	11.42
Nottawasaga R.P.D	9 “	1,594.84
Orangeville R.P.D	4 “	520.76
Port Perry R.P.D	8 “	902.88
Ripley R.P.D	5 “	17.79
Shelburne R.P.D	5 “	227.71
Sparrow Lake R.P.D	6 “	1,658.48
Tara R.P.D	6 “	728.29
Thornton R.P.D	1 “	23.60
Utterson R.P.D	1 “	99.47
Uxbridge R.P.D	6 “	903.47
Walkerton Quarry R.P.D.	9 “	190.92
Wasaga R.P.D	8 “	3,612.73
Wroxeter R.P.D	2 “	620.53
		593,883.09

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*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

GEORGIAN BAY SYSTEM

Reserve for Sinking Fund—October 31, 1930

Total provision for sinking fund to October 31, 1929		$504,364.41
Provided in the year ending October 31, 1930:		
By charges included in the cost of power delivered to municipalities and rural power districts	$59,397.99	
By charges included in the costs of distribution of power within rural power districts	3,368.40	
By charges against contracts with private companies which purchased power	6,577.71	
Interest at 4% per annum on the amount standing at the credit of the account	20,174.58	89,518.68
		$593,883.09

WALKERTON AND

Operating Account for the Period

Cost of Operation

Cost of operating and maintaining generating plants, transmission lines, stations and distribution systems	$10,622.85	
Power purchased	4,122.68	
Taxes—municipal and provincial	1,540.64	
Commercial expenses	3,599.59	
General and administrative expenses	5,506 62	
Provision for doubtful debts	200.00	$25,592.38
Interest on the Commission's investment in the properties		13,606.39
Expenses incidental to the acquisition of the properties		12,718.65
Provision for contingencies		305.61
		$52,223.03

GEORGIAN BAY RURAL LINES

Statement showing Interest, Sinking Fund, Renewals and Contingencies charged by the Commission to the Municipalities which operate the respective Rural Lines, for the year ending October 31, 1930

Operated by	Capital cost	Interest	Sinking fund	Renewals	Contingencies	Total interest, sinking fund, renewals and contingencies charged
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Brechin.......	922.02	48.22	16.60	18.44	9.22	92.48
Flesherton.....	1,885.41	105.77	33.94	37.71	18.85	196.27
Totals....	2,807.43	153.99	50.54	56.15	28.07	288.75

GEORGIAN BAY RURAL LINES

Statement showing the Sinking Fund paid in respect of each line, together with interest allowed thereon to October 31, 1930

Lines operated by	Period of years ending October 31, 1930	Amount
		$ c.
Brechin....................................	12 years	224.01
Flesherton....................................	13 "	388.19
Total....................................	....	612 20

SAUGEEN PROPERTIES

31st March to 31st October, 1930

Revenue for Period

Power and light sold to consumers on the four distribution systems, and to private Companies..................	$ 51,566.62
Net profit on purchase and sale of electric appliances and merchandise..........	483.08
Miscellaneous..................	173.33
	$52,223.03

EASTERN ONTARIO

Operating Account for Year

COSTS OF OPERATION AS PROVIDED UNDER THE TERMS OF THE POWER COMMISSION ACT

Power purchased		$522,732.86
Costs of operation and maintenance, including the proportion of administrative expenses chargeable to the operation of the system:		
Generation, transmission and distribution equipment	$868,731.20	
Rural power districts	66,035.16	
		934,766.36
Interest on capital investment in:		
Generation, transmission and distribution equipment	$881,875.34	
Rural power districts	31,997.23	
		913,872.57
Provision for renewals of:		
Generation, transmission and distribution equipment	$187,313.81	
Rural power districts	27,611.10	
		214,924.91
Provision for obsolescence and contingencies in respect of:		
Generation, transmission and distribution equipment	$101,354.86	
Rural power districts	13,805.55	
		115,160.41
Provision for sinking funds:		
By charges included in the cost of power delivered to municipalities and rural power districts	$89,344.81	
By charges against contracts with private companies which purchase power and local distribution systems	62,100.17	
By charges included in the cost of distribution of power within rural power districts	7,390.49	
		158,835.47
		$2,860,292.58

SYSTEM

ending October 31, 1930

REVENUE FOR PERIOD

Collected from municipalities	$1,450,939.43	
Power sold to private companies and local distribution systems	1,340,747.89	
Collected from customers in rural power districts	260,299.70	
		$3,051,987.02
Add:		
Amounts due by certain municipalities being the difference between the sums paid and the cost of power supplied to them in the year	$4,146.82	
Amounts due by municipalities comprising certain rural power districts, being the difference between the revenue collected from customers therein and the cost of power supplied them in the year	9,784.84	
		13,931.66
		$3,065,918.68
Deduct:		
Amounts collected from certain municipalities in excess of the sums required to be paid by them for power supplied in the year	$62,930.12	
Amounts collected from customers in certain rural power districts in excess of the cost of power delivered thereto	25,451.07	
		88,381.19
Revenue		$2,977,537.49
Deduct:		
Profit from power sold to local distribution systems, transferred to the credit of obsolescence and contingency reserve		117,244.91
		$2,860,292.58

EASTERN ONTARIO

Statement showing the amount to be paid by each Municipality as the Cost (under the received by the Commission from each Municipality on account of such cost, pality upon ascertainment (by annual adjustment) of the actual cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1930	To Oct. 31 1930				Operating, maintenance and administrative expenses	Interest
	$ c.	$ c.	$ c.		$ c.	$ c.	$ c.
Alexandria	.....	60.00	112,668.33	213.7	943.17	3,145.33	5,163.23
Apple Hill	55.00	60.00	10,467.00	28.0	123.58	570.64	471.73
Athens	89.27	80.00	32,834.16	74.9	330.57	1.074.82	1,525.92
Belleville	......	32.00	723,812.07	3,484.5	15,378.86	27,709.31	34,142.72
Bloomfield	......	60.00	35,935.73	86.4	381.33	1,450.80	1,668.74
Brighton	......	35.00	57,113.62	220.0	970.97	2.159.03	2.682.32
Brockville	......	30.00	409,421.91	2,056.2	9,075.05	20,392.75	19,135.70
Cardinal	......	37.50	12.620.14	24.6	108.57	649.09	320.73
Carleton Place	40.00	35.00	222,291.84	922.7	4,072.34	7,733.25	10,199.40
Chesterville	......	40.00	64,362.46	224.1	989.07	2,612.86	2,998.02
Finch	74.00	65.00	21,714.44	42.8	188.90	755.31	1,014.47
Havelock	48.00	45.00	78,857.88	241.4	1,065.42	2,945.34	3,676.17
Kemptville	45.00	40.00	63,758.50	225.9	997.01	2,119.00	2,997.75
Lakefield	......	48.00	50,952.25	189.0	834.15	2,221.38	2,384.29
Lanark	60.00	55.00	20,807.89	55.7	245.83	581.89	958.42
Lancaster	......	97.00	36,467.81	45.2	199.49	1.032.59	1,671.08
Lindsay	......	40.00	401.830.74	1,485.7	6,557.14	17.548,41	18,824.07
Madoc	.....	44.44	36,457.67	118.0	520.79	2,739.13	1,718.85
Marmora	50.00	48.00	25,865.97	83.4	368.09	1,237.32	1,207.47
Martintown	55.00	50.00	7,388.14	23.3	102.83	488.86	341.93
Maxville	......	86.00	30,630.90	54.5	240.54	951.45	1,382.17
Napanee	......	35.00	217,809.29	924.8	4,081.61	9,915.38	10,249.47
Norwood	40.00	37.00	31,639.06	127.5	562.72	1,484.32	1,483.34
Oshawa	......	34.00	2,412,491.46	9,722.1	42,908.54	84.857.91	113,070.09
Ottawa	......	......	412,629.76	3,418.0	15,085.36	20.396.78	19,912.94
"	......	......	964.71	18,975.8	208,734.13	1.178.05	43.03
Perth	40.00	35.00	183.181.89	861.5	3,802.23	7,219.12	8,618.22
Peterborough	......	30.00	1,260,692.20	6,186.8	27,305.48	41,091.31	59,407.20
Picton	......	48.00	263,792.72	759.6	3,352.50	7,557.13	12,287.37
Port Hope	......	38.00	280,264.45	1,193.0	5,265.31	13.547.62	13,270.10
Prescott	......	30.00	130,419.52	706.1	3,116.38	7.239.84	6,119.02
Richmond	84.50	65.00	11,279.30	38.5	808.69	190.16	516.20
Russell	75.00	70.00	27.919.50	55.1	243.18	856.74	1,300.98
Smiths Falls	35.00	30.00	278,779.15	1,570.6	6.931.85	10,651.07	13,015.84
Stirling	......	28.60	37,647.94	194.3	857.54	1,924.64	1,787.23
Warkworth	......	50.00	17,293.96	58.6	258.63	829.23	807.90
Wellington	50.00	48.00	46,148.55	142.1	627.16	1,545.58	2,152.21
Whitby	......	36.00	225,851.88	898.6	3,965.98	7,242.61	10,569.65
Williamsburg	55.00	45.00	9.298.79	35.9	158.44	483.38	429.10
Winchester	.....	40.00	55.087.95	218.0	962.14	2,454.93	2,602.30

SYSTEM *COST OF POWER*

Power Commission Act) of Power supplied to it by the Commission, the amount —and the amount remaining to be credited or charged to each Munici- of power supplied to it in the year ending October 31, 1930.

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,942.99	548.89	1,158.20	355.96	13,257.77	12,820.00	......	437.77
164.17	49.32	104.15	46.64	1,530.23	1,654.70	124.47	......
548.78	159.32	336.32	124.76	4,100.49	6,112.80	2,012.31	......
6,217.71	7,786.60	7,162.53	5,804.20	104,201.93	111,503.69	7,301.76	......
513.99	283.03	367.04	143.92	4,808.85	5,182.00	373.15	......
620.78	548.67	572.37	366.46	7,920.60	7,699.68	......	220.92
5,243.74	1,918.53	4,061.88	3,425.05	63,252.70	61,686.63	......	1,566.07
101.07	32.52	68.78	40.98	1,321.74	921.23	......	400.51
3,073.18	1,019.92	2,189.55	1,536.96	29,824.60	33,110.22	3,285.62	......
985.56	312.61	660.69	373.29	8,932.10	8,965.21	33.11	......
376.66	106.82	225.39	71.30	2,738.85	2,834.46	95.61	......
1,004.92	682.99	798.51	402.10	10,575.45	10,990.25	414.80	......
970.14	304.14	650.70	376.28	8,415.02	9,225.27	810.25	......
571.02	480.79	511.58	314.82	7,318.03	9,071.44	1,753.41	......
335.94	99.17	211.38	92.78	2,525.41	3,112.72	587.31	......
663.71	179.28	378.05	75.30	4,199.50	4,385.98	186.48	......
4,524.35	3,788.34	4,040.20	2,474.76	57,757.27	59,428.89	1,671.62	......
455.20	324.85	371.34	196.55	6,326.71	5,242.04	......	1,084.67
319.89	229.14	261.50	138.92	3,762.33	4,032.46	270.13	......
113.93	35.37	74.73	38.81	1,196.46	1,182.65	......	13.81
524.70	147.28	310.74	90.78	3,647.66	4,688.37	1,040.71	......
2,161.86	2,194.52	2,170.35	1,540.46	32,313.65	32,366.99	53.34	......
330.55	310.67	316.33	212.38	4,700.31	4,788.58	88.27	......
25,160.62	23,678.57	24,097.51	16,194.29	329,967.53	330,550.23	582.70	......
3,374.99	1,775.82	3,894.04	5,693.43	70,133.36	76,904.78	6,771.42	......
19.29	4.82	10.16	......	209,989.48	209,989.48	......	......
2,468.25	851.99	1,833.15	1,435.02	26,227.98	30,878.86	4,650.88	......
10,548.29	13,702.44	12,458.51	10,305.47	174,818.70	185,602.50	10,783.80	......
3,475.96	2,227.57	2,677.85	1,265.28	32,843.66	36,460.00	3,616.34	......
2,809.85	2,836.19	2,810.84	1,987.20	42,527.11	45,332.72	2,805.61	......
1,591.08	606.42	1,284.48	1,176.16	21,133.38	21,181.75	48.37	......
225.59	56.40	118.77	......	1,915.81	2,627.16	711.35	......
484.21	137.35	289.80	91.77	3,404.03	3,901.74	497.71	......
3,314.07	1,256.82	2,717.70	2,616.18	40,503.53	48,412.03	7,908.50	......
294.44	421.12	371.87	323.65	5,980.49	5,557.42	......	423.07
206.97	156.55	174.37	97.61	2,531.26	2,928.71	397.45	......
586.25	400.71	467.25	236.70	6,015.86	6,858.51	842.65	......
2,380.28	2,202.25	2,256.10	1,496.82	30,113.69	32,350.89	2,237.20	......
133.84	44.07	93.18	59.80	1,401.81	1,676.43	274.62	......
808.30	266.49	563.50	363.13	8,020.79	8,719.96	699.17	......

EASTERN ONTARIO

Statement showing the amount to be paid by each Municipality as the Cost (under the received by the Commission from each Municipality on account of such cost, pality upon ascertainment (by annual adjustment) of the actual cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1930	To Oct. 31 1930				Operating, maintenance and administrative expenses	Interest
			$ c.		$ c.	$ c.	$ c.
RURAL POWER DISTRICTS							
Alexandria R.P.D.—Lochiel twp...			5,773.21	10.0	44.14	144.31	261.83
Belleville R.P.D.—Sidney, Thurlow and Tyendinaga twps............			40,011.61	185.5	818.70	1,447.44	1,882.88
Bowmanville R.P.D.—Darlington twp..........................			8,164.78	33.4	147.41	343.50	383.81
Brighton R.P.D.—Brighton and Murray twps..................			3,063.37	11.8	52.08	119.40	143.87
Brockville R.P.D.—Leeds, Lansdowne Front, Escott Front, Yonge Front, Elizabethtown, Leeds, Lansdowne Rear, Augusta, Yonge and Escott Rear twps..............			45,986.66	180.6	797.08	2,221.05	2,150.93
Campbellford R.P.D.—Seymour and Rawdon twps...............			11,495.65	56.3	248.48	345.62	541.15
Chesterville R.P.D.—Russell, Cambridge, Winchester, Williamsburg, Finch and Osnabruck twps.			28,349.82	82.7	364.99	910.81	1,326.54
Cobourg R.P.D.—Haldimand, Hamilton and Alnwick twps......			30,001.72	108.2	477.54	800.34	1,400.15
Colborne R.P.D—Haldimand and Cramahe twps..................			11,995.79	47.8	210.97	368.16	561.80
Deseronto R.P.D.—Richmond twp.			250.77	0.7	3.09	11.01	11.69
Iroquois R.P.D.—Mountain, Matilda, Williamsburg, Winchester and Gower S. twps..............			18,493.22	118.5	523.00	838.21	885.47
Kingston R.P.D.—Ernestown, Portland, Kingston, Loughborough and Pittsburg twps.................			33 457.96	92.2	1,061.42	930.44	1,485.74
Lakefield R.P.D.—Smith twp......			140.75	0.7	3.09	10.58	6.62
Lindsay R.P.D.—Fenelon twp.....			108.18	0.4	1.77	4.66	5.12
Martintown R.P.D.—Charlottenburg and Lancaster twps.........			17,067.38	40.1	176.98	622.11	781.21
Maxville R.P.D.—Roxborough, Kenyon, Plantagenet N. and Plantagenet S. twps.................			24,447.62	67.4	297.47	755.27	1,105.30
Millbrook R.P.D.—Manvers and Cavan twps....................			3,702.13	8.5	37.51	166.76	140.23
Napanee R.P.D.—Fredericksburg N., Richmond and Camden E. twps......................			17,602.54	67.0	295.70	808.16	825.88
Nepean R.P.D.—March, Nepean, Coulburn, Gower N., Gloucester and Osgoode twps...............			7,019.53	369.3	7,755.28	274.31	297.96
Newcastle R.P.D.—Clarke, Darlington and Manvers twps...........			8,907.70	28.2	124.46	275.73	388.56

SYSTEM *COST OF POWER*

Power Commission Act) of Power supplied to it by the Commission, the amount —and the amount remaining to be credited or charged to each Munici- of power supplied to it in the year ending October 31, 1930.

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
98.43	27.57	58.15	16.66	651.09	651.09	see page	229
360.80	421.95	396.99	308.99	5,637.75	5,637.75	"	"
84.12	80.77	81.56	55.64	1,176.81	1,176.81	"	"
33.30	29.43	30.70	19.66	428.44	428.44	"	"
660.06	218.38	461.81	300.83	6,810.14	6,810.14	"	"
96.46	124.80	113.62	93.78	1,563.91	1,563.91	"	"
453.01	137.69	290.84	137.76	3,621.64	3,621.64	"	"
343.26	279.34	301.48	180.23	3,782.34	3,782.34	"	"
126.62	117.15	120.01	79.62	1,584.33	1,584.33	"	"
3.35	2.10	2.55	1.17	34.96	34.96	"	"
199.13	84.80	179.82	197.39	2,907.82	2,907.82	"	"
419.08	269.67	323.54	153.58	4,643.47	4,643.47	"	"
1.15	1.54	1.39	1.17	25.54	25.54	"	"
1.22	1.03	1.10	0.66	15.56	15.56	"	"
283.10	82.62	174.42	66.80	2,187.24	2,187.24	"	"
377.68	114.34	241.51	112.27	3,003.84	3,003.84	"	"
39.95	25.18	30.52	14.16	454.31	454.31	"	"
193.07	168.11	176.43	111.60	2,578.95	2,578.95	"	"
140.38	35.09	73.92	....	8,576.94	8,576.94	"	"
99.41	75.29	83.81	46.97	1,094.23	1,094.23	"	"

EASTERN ONTARIO

Statement showing the amount to be paid by each Municipality as the Cost (under the received by the Commission from each Municipality on account of such cost, pality upon ascertainment (by annual adjustment) of the actual cost

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horse-power supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1 1930	To Oct. 31 1930				Operating, maintenance and administrative expenses	Interest
			$ c.		$ c.	$ c.	$ c.
Norwood R.P.D.—Asphodel, Seymour, Methuen and Dummer twps.			2,440.60	8.0	35.31	88.24	114.06
Oshawa R.P.D.—Pickering, Whitby, Whitby E. and Darlington twps...			86,436.19	347.9	1,535.46	3,083.75	4,047.44
Peterborough R.P.D.—Cavan, Monoghan N., Smith, Douro and Otonabee twps..................			103,140.60	481.2	2,123.78	3,628.72	4,760.05
Pickering R.P.D.—Pickering and Whitby twps..................			30,599.14	120.1	530.06	1,344.41	1,431.57
Port Hope R.P.D.—Hope and Hamilton twps..................			10,023.97	41.5	183.16	496.68	472.92
Prescott R.P.D.—Augusta, Edwardsburg twps....................			30,533.38	156.9	692.48	1,926.75	1,433.37
Smiths Falls R.P.D.—Crosby S., Bastard, Burgess S., Kitley, Montague and Wolford twps.........			23,040.80	98.4	434.29	742.42	1,081.05
Stirling R.P.D.—Rawdon and Sidney twps...................			1,768.80	9.2	40.60	75.88	83.99
Trenton R.P.D.—Sidney and Murray twps......................			2,061.97	10.5	46.34	73.22	94.16
Warkworth R.P.D.—Percy twp....			417.86	1.8	7.94	22.42	19.63
Wellington R. P. D.—Hillier, Ameliasburg and Hallowell twps..			20,682.53	51.0	225.53	627.88	897.15
Williamsburg R.P.D.—Matilda and Williamsburg twps..............			1,476.05	11.0	203.88	196.80	68.40
Totals—Municipalities............			8,359,451.53	55,986.9	372,721.57	320,784.36	392,127.37
Totals—Rural Power Districts.....			628,662.28	2,846.8	19,499.99	23,705.04	29,090.53
Totals—Companies...............			5,577,751.11	20,896.5	92,226.81	231,542.81	262,994.17
Totals—Public Utilities owned by the Commission...............			4,256,046.81	11,752.0	38,284.49	292,698.99	197,663.27
			18,821,911.73				
Campbellford Pulp Mill...........			52,559.93				
Non-operating capital............			69,337.34				
Grand totals.................			18,943,809.00	91,482.2	522,732.86	868,731.20	881,875.34

SYSTEM *COST OF POWER*

Power Commission Act) of Power supplied to it by the Commission, the amount —and the amount remaining to be credited or charged to each Munici- of power supplied to it in the year ending October 31, 1930.

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining to be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
29.86	21.75	24.66	13.32	327.20	327.20	see page	229
903.51	848.11	863.97	579.50	11,861.74	11,861.74	"	"
881.37	1,081.00	1,001.09	801.54	14,277.55	14,277.55	"	"
326.40	296.40	305.89	200.05	4,434.78	4,434.78	"	"
103.24	100.03	100.67	69.13	1,525.83	1,525.83	see page	231
384.62	142.53	301.78	261.35	5,142.88	5,142.88	"	"
319.12	106.63	228.98	163.91	3,076.40	3,076.40	"	"
13.66	19.87	17.46	15.33	266.79	266.79	"	"
15.03	22.53	19.63	17.49	288.40	288.40	"	"
4.09	4.25	4.17	3.00	65.50	65.50	"	"
264.08	157.42	196.05	85.12	2,453.23	2,453.23	"	"
22.41	7.05	14.90	8.16	521.60	521.60	"	"
89,647.12	72,168.35	83,121.39	61,585.97	1,392,156 13	1,450,939.43	62,930.12	4,146.82
7,280.97	5,104.42	6,223.42	4,116.84	95,021.21	95,021.21	....	....
44,708.94	17,253.63	43,309.46	(65,702 81)	626,333.01	626,333.01	....	....
45,676.78	6,828.46	18,790.71	....	599,942.70	717,187.61	117,244.91	*
187,313.81	101,354.86	151,444.98	....	2,713,453 05	2,889,481 26	....	....

*Transferred to credit of obsolescence and contingencies.

EASTERN ONTARIO SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain districts or charged to annual adjustment) of the actual costs

Districts and municipalities comprised therein:	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	$ c.	$ c.	$ c.	$ c.
Alexandria R.P.D.—Lochiel twp	10,765.35	5,382.67	5,382.68	651.09
Belleville R.P.D.—Sidney, Thurlow and Tyendinaga twps	105,987.96	52,604.50	53,383.46	5,637.75
Bowmanville R.P.D.—Darlington twp	13,689.55	6,844.78	6,844.77	1,176.81
Brighton R.P.D.—Brighton and Murray twps	3,218.92	1,609.46	1,609.46	428.44
Brockville R.P.D.—Leeds front, Lansdowne front, Escott front, Yonge front, Elizabethtown, Leeds rear, Lansdowne rear, Augusta, Yonge rear and Escott rea rtwps	158,444.01	76,564.58	81,879.43	6,810.14
Campbellford R.P.D.—Seymour and Rawdon twps	24,751.24	12,375.62	12,375.62	1,563.91
Chesterville R.P.D.—Russell, Cambridge, Winchester, Williamsburg, Finch and Osnabruck twps	*88,388.69	41,643.19	46,745.50	3,621.64
Cobourg R.P.D.—Haldimand, Hamilton and Alnwick twps	123,140.41	60,872.23	62,268.18	3,782.34
Colborne R.P.D.—Haldimand and Cramahe twps	32,320.82	16,160.41	16,160.41	1,584.33
Deseronto R.P.D.—Richmond twp	652.03	326.01	326.02	34.96
Iroquois R.P.D.—Mountain, Matilda, Williamsburg, Winchester and Gower S. twps	155,074.31	77,240.15	77,834.16	2,907.82
Kingston R.P.D. — Ernestown, Portland, Kingston, Loughborough and Pittsburgh twps	106,158.83	52,847.70	53,311.13	4,643.47
Lakefield R.P.D.—Smith twp	*315.82	134.57	181.25	25.54
Lindsay R.P.D.—Fenelon twp	1,735.99	867.99	868.00	15.56
Martintown R.P.D.—Charlottenburg and Lancaster twps	31,808.66	15,904.33	15,904.33	2,187.24
Maxville R.P.D. — Roxborough, Kenyon, Plantagenet N. and Plantagenet S. twps	79,223.85	39,611.93	39,611.92	3,003.84
Millbrook R.P.D.—Manvers and Cavan twps.	17,722.01	8,861.01	8,861.00	454.31
Napanee R.P.D.—Fredericksburg N., Richmond and Camden E. twps	*25,799.89	12,605.56	13,194.33	2,578.95
Nepean R.P.D.—March, Nepean, Coulburn, Gower N., Gloucester and Osgoode twps	*185,855.88	88,503.61	97,352.27	8,576.94
Newcastle R.P.D.—Clarke, Darlington and Manvers twps	*36,200.28	17,207.54	18,992.74	1,094.23
North Bay R.P.D.—East Ferris, West Ferris and Widdifield twps	17,791.32	8,611.03	9,180.29	2,772.73
Norwood R.P.D.—Asphodel, Seymour, Methuen and Dummer twps	12,060.59	6,030.30	6,030.29	327.20
Oshawa R.P.D.—Pickering, Whitby, Whitby E. and Darlington twps	146,954.63	72,361.76	74,592.87	11,861.74
Peterborough R.P.D.—Cavan, Monoghan N. Smith, Douro and Otonabee twps	141,800.28	70,900.14	70,900.14	14,277.55
Pickering R.P.D.—Pickering and Whitby twps	31,565.16	15,782.58	15,782.58	4,434.78

Items marked * include portions of transmission lines for purposes of rural power districts.

RURAL POWER DISTRICTS *RURAL OPERATING*

District, the revenues collected from (or charged to) customers within each district, the Municipalities comprising certain other districts upon ascertainment (by in the year ending October 31, 1930.

Distribution cost and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and and administration	Interest on capital investment	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,317.76	218.29	190.47	95.24	50.14	2,522 99	1,287.37	....	1,235.62
3,526.69	1,833.80	1,607.91	803.95	425.33	13,835.43	19,197.95	5,362.52	....
226.94	210.89	184.02	92.01	48.44	1,939.11	2,048.30	109.19	....
447.63	73.78	64.38	32.19	16.95	1,063.37	1,018.96	....	44.41
4,875.56	2,666.17	2,260.77	1,130.38	616.32	18,359.34	20,022.74	1,663.40	....
883.65	546.49	476.85	238.42	125.53	3,834.85	3,414.30	....	420.55
2,720.98	1,683.19	1,403.07	701.54	393.03	10,523.45	12,399.90	1,876.45	....
2,961.84	2,628.87	2,299.50	1,149.75	606.82	13,429.12	13,580.36	151.24	....
722.99	436.82	381.16	190.58	100.34	3,416.22	3,647.82	231.60	....
4.19	11.21	9.78	4.89	2.57	67.60	109.72	42.12	....
3,348.65	1,184.38	1,035.44	517.72	273.10	9,267.11	8,199.37	....	1,067.74
4,175.61	945.05	827.49	413.75	218.59	11,223.96	9,368.71	....	1,855.25
5.86	7.11	5.27	2.64	1.63	48.05	37.53	....	10.52
18.44	9.94	8.67	4.34	2.28	59.23	30.24	....	28.99
1,274.49	690.18	602.23	301.12	158.54	5,213.80	6,406.05	1,192.25	....
2,880.17	1,500.02	1,308.88	654.44	344.56	9,691.91	8,119.56	....	1,572.35
149.93	132.82	115.89	57.95	30.51	941.41	690.00	....	251.41
1,245.75	596.14	508.40	254.20	136.94	5,320.38	5,930.36	609.98	....
6,576.14	4,218.76	3,504.20	1,752.08	969.07	25,597.19	28,241.85	2,644.66	....
594.83	618.76	510.01	255.00	142.66	3,215.49	3,863.04	647.55	....
682.75	395.66	351.04	175.52	93.93	4,471.63	6,318.22	1,846.59	....
516.07	217.01	189.36	94.67	49.85	1,394.16	1,052.89	....	341.27
8,027.22	2,940.77	2,588.23	1,294.12	687.21	27,399.29	28,415.50	1,016.21	....
5,531.85	2,620.24	2,286.35	1,143.17	601.88	26,461.04	28,256.05	1,795.01	....
1,142.40	682.98	595.95	297.97	156.88	7,310.96	9,674.15	2,363.19	....

EASTERN ONTARIO SYSTEM—

Statement showing the costs of distribution of power within each Rural Power and the amounts remaining to be credited to certain districts or charged to annual adjustment) of the actual costs

Districts and municipalities comprised therein:	Total capital cost of each district, Provincial Government grant received and applied thereagainst, and the balance representing the investment by the Commission			Cost of power delivered to districts as shown in "cost of power" table preceding
	Total capital cost	Government grant	Commission's investment	
	$ c.	$ c.	$ c.	$ c.
Port Hope R.P.D.—Hope and Hamilton twps.	25,189.06	12,594.53	12,594.53	1,525.83
Prescott R.P.D.—Augusta and Edwardsburg twps.	54,572.93	27,102.97	27,469.96	5,142.88
Smiths Falls R.P.D.—Crosby S., Bastard, Burgess S., Kitley, Montague and Wolford twps.	98,981.54	48,279.73	50,701.81	3,076.40
Stirling R.P.D.—Rawdon and Sidney twps.	42,001.14	21,000.57	21,000.57	266.79
Trenton R.P.D.—Sidney and Murray twps.	8,627.97	4,313.99	4,313.98	288.40
Warkworth R.P.D.—Percy twp.	*1,357.96	538.90	819.06	65.50
Wellington R.P.D.—Hillier, Ameliasburg and Hallowell twps.	*116,881.30	58,219.30	58,662.00	2,453.23
Williamsburg R.P.D.—Matilda and Williamsburg twps.	20,677.98	10,338.99	10,338.99	521.60
	1,919,716.36		975,473.73	
Non-operating capital	108,295.39		108,295.39	
Totals	2,028,011.75	944,242.63	1,083,769.12	97,793.94

Items marked * include portions of transmission lines for purposes of rural power districts.

District, the revenues collected from (or charged to) customers within each district, the Municipalities comprising certain other districts upon ascertainment (by in the year ending October 31, 1930.

Distribution cost and fixed charges					Total cost	Revenue from power and light customers in each district	Amounts remaining to be credited to certain districts or charged to the municipalities comprising certain other districts	
Cost of operation, maintenance and and administration	Interest on capital investment	Renewal charges	Obsolescence and contingencies	Sinking fund			Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
680.31	511.45	446.28	223.14	117.48	3,504.49	4,332.47	827.98	....
3,526.40	1,217.16	1,065.73	532.86	281.52	11,766.55	14,157.53	2,390.98	....
4,975.14	1,778.14	1,558.17	779.10	411.94	12,578.89	10,978.64	....	1,600.25
518.60	171.84	149.94	74.97	39.47	1,221.61	1,143.35	....	78.26
406.48	98.55	85.99	43.00	22.64	945.06	1,625.21	680.15	....
21.22	36.33	26.10	13.05	8.35	170.55	102.33	....	68.22
1,393.01	848.71	731.71	365.86	194.95	5,987.47	5,453.12	....	534.35
655.61	265.72	231.86	115.93	61.04	1,851.76	1,176.11	....	675.65
66,035.16	31,997.23	27,611.10	13,805.55	7,390.49	244,633.47	260,299.70	25,451.07	9,784.84

Net credit.. $15,666.23

EASTERN ONTARIO

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount credited ending October 31, 1930, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1929		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
		$ c.	$ c.	$ c.	$ c.
Alexandria	Jan., 1921	328.64	....	....	328.64
Apple Hill	April, 1921	....	222.46	....	....
Athens	Jan., 1929	455.34	....	....	455.34
Belleville	April, 1929	3,702.63	....	....	3,702.63
Bloomfield	April, 1919	267.33	....	....	267.33
Brighton	Nov., 1929	....		....	....
Brockville	April, 1915	1,043.08	....	....	1,043.08
Cardinal	July, 1930	....	....	....	....
Carleton Place	May, 1919	10,341.46	....	....	10,341.46
Chesterville	April, 1914	241.44	....	....	241.44
Finch	Feb., 1928	712.18	....	....	712.18
Havelock	Feb., 1921	1,837.65	....	....	1,837.65
Kemptville	Dec., 1921	2,222.39	....	....	2,222.39
Lakefield	Aug., 1920	466.03	....	....	466.03
Lanark	Sept., 1921	801.24	....	....	801.24
Lancaster	May, 1921	....	8,436.47	500.00	....
Lindsay	Mar., 1928	....	296.82	296.82	....
Madoc	Jan., 1930	....	....	....	....
Marmora	Jan., 1921	146.63	....	....	146.63
Martintown	May, 1921	208.03	....	....	208.03
Maxville	Feb., 1921	....	372.58	372.58	....
Napanee	Nov., 1929	....	....	....	....
Norwood	Feb., 1921	706.03	....	....	706 03
Oshawa	Feb., 1929	954.48	....	....	954.48
Ottawa	Jan., 1914	....	....	....	....
Perth	Feb., 1919	9,819.51	....	....	9,819.51
Peterboro	Mar., 1913	12,726.04	....	....	13,063.54
Picton	April, 1919	1,421.25	....	....	1,421.25
Port Hope	Nov., 1929	....	....	....	....
Prescott	Dec., 1913	1,224.18	....	....	1,224.18
Richmond	Aug., 1928	862.82	....	....	862.82
Russell	Feb., 1926	493.27	....	....	493.27
Smiths Falls	Sept., 1918	15,718.49	....	....	15,718.49
Stirling	Jan., 1930	....	....	....	....
Warkworth	Oct., 1923	308.76	....	....	308.76
Wellington	April, 1919	754.22	....	....	754.22
Whitby	Jan., 1926	1,317.66	....	....	1,317.66
Williamsburg	April, 1915	535.11	....	....	535.11
Winchester	Jan., 1914	326.63	....	....	326.63

SYSTEM *CREDIT OR CHARGE*

supplied to it to October 31, 1929, the cash receipts and payments thereon, adjustments or charged to each Municipality in respect of power supplied in the year as a credit or charge to each Municipality at October 31, 1930

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1930		Accumulated amount standing as a credit or charge on October 31, 1930	
Credited	Charged	Credited	Charged	Charge	Credit
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
8.36			437.77		429.41
	8.90	124.47			106.89
10.63		2,012.31		2,022.94	
98.20		7,301.76		7,399.96	
7.09		373.15		380.24	
			220.92		220.92
24.69			1,566.07		1,541.38
			400.51		400.51
319.49		3,285.62		3,605.11	
6.14		33.11		39.25	
16.62		95.61		112.23	
51.71		414.80		466.51	
57.70		810.25		867.95	
18.47		1,753.41		1,771.88	
20.92		587.31		608.23	
	335.87	186.48			8,085.86
7.32		1,671.62		1,678.94	
			1,084.67		1,084.67
3.89		270.13		274.02	
5.64			13.81		8.17
	9.51	1,040.71		1,031.20	
		53.34		53.34	
23.18		88.27		111.45	
25.31		582.70		608.01	
		6,771.42		6,771.42	
275.45		4,650.88		4,926.33	
337.50		10,783.80		10,783.80	
33.80		3,616.34		3,650.14	
		2,805.61		2,805.61	
31.66		48.37		80.03	
14.37		711.35		725.72	
11.55		497.71		509.26	
484.13		7,908.50		8,392.63	
			423.07		423.07
7.42		397.45		404.87	
15.66		842.65		858.31	
34.94		2,237.20		2,272.14	
16.80		274.62		291.42	
8.30		699.17		707.47	

EASTERN ONTARIO

Statement showing the net Credit or Charge to each Municipality in respect of power made and interest added during the year. Also the net amount credited ending October 31, 1930, and the accumulated amount standing

Municipality	Date commenced operating	Net credit or charge at October 31, 1929		Cash receipts and payments on account of such credits and charges, also adjustments made during the year	
		Credit	Charge	Credited	Charged
Rural Power District*		$ c.	$ c.	$ c.	$ c.
Alexandria R.P.D	Dec., 1929				
Belleville R.P.D	Sept., 1927	7,552.54			
Bowmanville R.P.D	Jan., 1924	85.08			
Brighton R.P.D	Nov., 1929				
Brockville R.P.D	Nov., 1921		1,018.13		42.27
Campbellford R.P.D	Aug., 1924		253.43		
Chesterville R.P.D	Nov., 1921	3,295.67			
Cobourg R.P.D	Feb., 1927	204.87			
Colborne R.P.D	Aug., 1925	1,919.14			
Deseronto R.P.D	Mar., 1930				
Iroquois R.P.D	July, 1930				
Kingston R.P.D	Jan., 1923	248.62			
Lakefield R.P.D	July, 1928		14.08		
Lindsay R.P.D	July, 1930				
Martintown R.P.D	Jan., 1922		721.97		
Maxville R.P.D	Dec., 1927	1,043.35			
Millbrook R.P.D	July, 1930				
Napanee R.P.D	Nov., 1927		132.81		
Nepean R.P.D	Feb., 1922	2,138.78			73.10
Newcastle R.P.D	Sept., 1927	326.06			
North Bay R.P.D	June, 1927	2,032.47			
Norwood R.P.D	Jan., 1929	8.89			
Oshawa R.P.D	April, 1918	15,706.07			
Peterboro R.P.D	Jan., 1927	9,313.64			
Pickering R.P.D	Jan., 1926	5,941.30			
Port Hope R.P.D	Aug., 1927	439.46			
Prescott R.P.D	June, 1922		1,413.01		36.97
Smiths Falls R.P.D	May, 1929		662.29		
Stirling R.P.D	Nov., 1929				
Trenton R.P.D	Jan., 1924	1,425.54			
Warkworth R.P.D	Nov., 1928	28.96			
Wellington R.P.D	Nov., 1925	257.83			
Williamsburg R.P.D	Feb., 1923		149.81		
		121,910.79	13,693.86	1,169.40	70,432.36

*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

SYSTEM *CREDIT OR CHARGE*

supplied to it to October 31, 1929, the cash receipts and payments thereon, adjustments or charged to each Municipality in respect of power supplied in the year as a credit or charge to each Municipality at October 31, 1930

Interest at 4% per annum added during the year		Net amount credited or charged in respect of power supplied in the year ending October 31, 1930		Accumulated amount standing as a credit or charge on October 31, 1930	
Credited	Charged	Credited	Charged	Credit	Charge
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
			1,235.62		1,235.62
302.10		5,362.52		13,217.16	
3.40		109.19		197.67	
			44.41		44.41
	40.73	1,663.40		562.27	
	10.14		420.55		684.12
131.83		1,876.45		5,303.95	
8.19		151.24		364.30	
76.77		231.60		2,227.51	
		42.12		42.12	
			1,067.74		1,067.74
9.94			1,855.25		1,596.69
	0.56		10.52		25.16
			28.99		28.99
	28.88	1,192.25		441.40	
41.74			1,572.35		487.26
			251.41		251.41
	5.31	609.98		471.86	
85.06		2,644.66		4,795.40	
13.04		647.55		986.65	
81.30		1,846.59		3,960.36	
0.36			341.27		332.02
628.24		1,016.21		17,350.52	
372.55		1,795.01		11,481.20	
237.65		2,363.19		8,542.14	
17.58		827.98		1,285.02	
	57.27	2,390.98		883.73	
	26.49		1,600.25		2,289.03
			78.26		78.26
57.02		680.15		2,162.71	
1.16			68.22		38.10
10.31			534.35		266.21
	5.99		675.65		831.45
4,055.18	529.65	88,381.19	13,931.66	138,486.38	21,557.35

EASTERN ONTARIO SYSTEM

Reserve for Renewals, October 31, 1930

Total provision for renewals to October 31, 1929:		
Eastern Ontario system	$3,138,378.44	
Ottawa system	13,796.42	
Service buildings	10,525.69	
		$3,162,700.55
Expenditures to October 31, 1929:		
Eastern Ontario system	$736,561.35	
Ottawa system	721.27	
		737,282.62
Balance brought forward at October 31, 1929		$2,425,417.93
Added during the year ending October 31, 1930:		
Amounts charged to municipalities and rural power districts as part of the cost of power delivered to them	$ 96,928.09	
Amounts included in the costs of distribution of power within rural power districts	27,611.10	
Provision against equipment employed in respect of contracts with private companies, which purchased power, and local distribution systems and pulp mill	91,436.92	
Reserve provided in respect of equipment purchased	1,966.00	
Interest at 4% per annum on the monthly balances at the credit of the account	97,083.53	
		315,025.64
		$2,740,443.57
Deduct:		
Expenditures during the year ending October 31, 1930	$28,314.39	
Accumulated reserves for renewals in respect of local distribution systems sold to municipalities during the year	72,122.74	
		100,437.13
Balance carried forward October 31, 1930		$2,640,006.44

EASTERN ONTARIO SYSTEM

Reserve for Obsolescence and Contingencies, October 31, 1930

Balance brought forward at October 31, 1929:		
Eastern Ontario system	$746,958.99	
Ottawa system	7,548.14	
		$754,507.13
Added during the year ending October 31, 1930:		
Amounts charged to municipalities and rural power districts as part of the cost of power delivered to them	$77,272.77	
Amount included in the costs of distribution of power within rural power districts	13,805.55	
Provision against equipment employed in respect of contracts with private companies, which purchased power, and local distribution systems	24,082.09	
Net profit from operation of local distribution systems and from the sale of old equipment	111,177.26	
Interest at 4% per annum on monthly balances at the credit of the account	30,180.28	
		256,517.95
		$1,011,025.08
Deduct:		
Expenditures during the year ending October 31, 1930		816.07
Balance carried forward October 31, 1930		$1,010,209.01

EASTERN ONTARIO SYSTEM *SINKING FUND*

Statement showing Sinking Fund paid by each municipality in the periods mentioned hereunder as part of the cost of power delivered thereto, together with its proportionate share of other Sinking Funds, provided out of other revenues of the system, and interest allowed thereon to October 31, 1930

Municipality	Period of years ending Oct. 31, 1930	Amount
		$ c.
Alexandria	6 years	12,070.02
Apple Hill	6 “	1,130.13
Athens	2 “	962.76
Belleville	2 “	21,957.90
Bloomfield	2 “	1,160.13
Brighton	1 “	1,030.07
Brockville	10 “	61,515.00
Cardinal	1 “	106.78
Carleton Place	6 “	25,408.63
Chesterville	11 “	12,969.45
Finch	3 “	924.79
Havelock	2 “	2,686.16
Kemptville	6 “	6,076.09
Lakefield	2 “	1,883.15
Lanark	6 “	1,950.47
Lancaster	6 “	2,736.92
Lindsay	2 “	14,841.22
Madoc	1 “	553.64
Marmora	2 “	915.95
Martintown	6 “	698.06
Maxville	6 “	3,341.22
Napanee	1 “	4,018.84
Norwood	2 “	1,209.91
Oshawa	2 “	81,657.92
Ottawa	15 “	9,694.63
Perth	6 “	21,085.72
Peterboro	2 “	53,205.13
Picton	2 “	8,544.41
Port Hope	1 “	5,160.64
Prescott	11 “	16,336.82
Richmond	3 “	260.58
Russell	5 “	1,760.02
Smiths Falls	7 “	34,205.90
Stirling	1 “	672.05
Warkworth	2 “	594.68
Wellington	2 “	1,519.30
Whitby	2 “	8,677.13
Williamsburg	10 “	1,417.27
Winchester	11 “	7,460.07

Rural Power District	Period of years ending Oct. 31, 1930	Amount
		$ c.
RURAL POWER DISTRICT*		
Alexandria R.P.D	1 years	123.73
Belleville R.P.D	2 “	2,116.96
Bowmanville R.P.D	2 “	216.09
Brighton R.P.D	1 “	65.88
Brockville R.P.D	9 “	3,983.94
Campbellford R.P.D	2 “	696.67
Chesterville R.P.D	9 “	2,670.02
Cobourg R.P.D	2 “	2,078.80
Colborne R.P.D	2 “	634.86
Deseronto R.P.D	1 “	6.19
Iroquois R.P.D	1 “	636.00
Kingston R.P.D	2 “	1,118.93
Lakefield R.P.D	2 “	8.85
Lindsay R.P.D	1 “	4.00
Martintown R.P.D	9 “	2,524.61
Maxville R.P.D	3 “	1,417.65
Millbrook R.P.D	1 “	74.16
Napanee R.P.D	2 “	454.04
Nepean R.P.D	9 “	4,979.72
Newcastle R.P.D	2 “	390.26
North Bay R.P.D	1 “	93.93
Norwood R.P.D	2 “	119.37
Oshawa R.P.D	2 “	4,590.66
Peterboro R.P.D	2 “	4,812.78
Pickering R.P.D	2 “	1,327.43
Port Hope R.P.D	2 “	494.95
Prescott R.P.D	9 “	3,518.30
Smiths Falls R.P.D	2 “	955.36
Stirling R.P.D	1 “	71.14
Trenton R.P.D	2 “	121.03
Warkworth R.P.D	2 “	22.53
Wellington R.P.D	2 “	575.79
Williamsburg R.P.D	6 “	198.72
		473,502.91

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*For townships included in rural power districts see "Cost of Power" and "Rural Operating" statements preceding.

EASTERN ONTARIO SYSTEM

Reserve for Sinking Fund, October 31, 1930

Total provision for sinking fund to October 31, 1929:		
Eastern Ontario system	$298,267.74	
Ottawa system	4,110.88	
Service buildings	186.23	
		$302,564.85
Provided in the year ending October 31, 1930:		
By charges included in the cost of power delivered to municipalities and rural power districts	$89,344.81	
By charges included in the costs of distribution of power within rural power districts	7,390.49	
By charges against contracts with private companies which purchased power, and local distribution systems	62,100.17	
Interest at 4% per annum on the amount standing at the credit of the account	12,102.59	
		170,938.06
		$473,502.91

THUNDER BAY

Operating Account for the Year

Costs of operation as provided for under the terms of the Power Commission act

Power purchased		$474.00
Cost of operating and maintaining generating plants, transformer stations and transmission lines, including the proportion of administrative expenses chargeable to the operation of the system		225,693.87
Interest on capital investment		655,340.84
Provision for renewal of generating plants, transformer stations and transmission lines		112,798.56
Provision for obsolescence and contingencies		286,252.43
Provision for sinking fund:		
By charges included in the cost of power delivered to municipalities	$92,219.54	
By charges against contracts with private companies which purchased power	44,791.78	
		137,011.32
		$1,417,571.02

THUNDER BAY

Statement showing the amount to be paid by each Municipality as the Cost—under
received by the Commission from each Municipality on account of such cost:
upon ascertainment (by annual adjustment) of the actual

Municipality	Interim rates per horsepower collected by Commission during year		Share of capital cost of system on which interest and fixed charges are payable	Average horsepower supplied in year after correction for power factor	Cost of power purchased	Share of operating	
	To Jan. 1, 1930	To Oct. 31 1930				Operating, maintenance and administrative expenses	Interest
	$ c.	$ c.	$ c.		$ c.	$ c.	$ c.
Fort William	21.00 plus transformation charges		2,630,323.12	9,861.8	71.75	36,386.16	102,189.58
Port Arthur	21.00 plus transformation charges		8,721,462.09	33,080.7	240.70	118,079.52	337,490.20
Nipigon twp.	40.00	35.00	15,047.81	60.6	0.44	552.01	573.99
Totals—Municipalities			11,366,833.02	43,003.1	312.89	155,017.69	440,253.77
Totals—Companies			5,595,124.58	22,142.2	161.11	70,676.18	215,087.07
			16,961,957.60				
Non-operating capital			683,838.71				
Grand totals			17,645,796.31	65,145.3	474.00	225,693.8	655,340.84

SYSTEM

ending October 31, 1930

REVENUE FOR PERIOD

Collected from municipalities	$958,513.19	
Power sold to private companies	461,723.70	
		$1,420,236.89
Deduct:		
Amounts collected from certain municipalities in excess of the sum required to be paid by them for power supplied in the period		2,665.87
Revenue		$1,417,571.02

		$1,417,571.02

SYSTEM *COST OF POWER*

the Power Commission Act—of Power supplied to it by the Commission; the amount and the amount remaining to be credited or charged to each Municipality cost of power supplied to it in the year ending October 31, 1930

costs and fixed charges			Cost in excess of revenue from power sold to private companies	Total cost of power for year as provided to be paid under Power Commission Act	Amounts paid to the Commission by each municipality	Amounts remaining on be credited or charged to each municipality upon ascertainment of the actual cost of power by annual adjustment	
Renewals	Obsolescence and contingencies	Sinking fund				Credited	Charged
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
18,013.38	43,645.93	21,396.61	281.13	221,984.54	222,390.16	405.62	....
58,899.46	145,898.80	70,702.77	943.03	732,254.48	733,944.15	1,689.67	....
96.50	263.47	120.16	1.73	1,608.30	2,178.88	570.58	....
77,009.34	189,808.20	92,219.54	1,225.89	955,847.32	958,513.19	2,665.87	....
35,789.22	96,444.23	44,791.78	(1,225.89)	461,723.70	461,723.70	....	....
112,798.56	286,252.43	137,011.32	....	1,417,571.02	1,420,236.89	....	....

THUNDER BAY

Statement showing the net Credit to each municipality in respect of power the year, also the net amount credited to each municipality in respect amount standing as a credit to each

Municipality	Date commenced operating	Net credit October 31, 1929	Payments on acount of such credits
		Credit	Charged
		$ c.	$ c.
Fort William	Oct., 1926	5,494.22	5,494.22
Nipigon twp	Jan., 1925	823.55	823.55
Port Arthur	Dec., 1910	15,504.27	15,504.27
Totals	....	21,822.04	21,822.04

THUNDER BAY SYSTEM

Reserve for Renewals, October 31, 1930

Total provision for renewals to October 31, 1929	$637,371.86	
Deduct:		
Expenditures to October 31, 1929	2,125.00	
Balance brought forward October 31, 1929		$635,246.86
Added during the year ending October 31, 1930:		
Amounts charged to municipalities as part of the cost of power delivered to them	$77,009.34	
Provision against equipment employed in respect of contracts with private companies which purchased power	35,789 22	
Reserve provided in respect of second hand equipment purchased	750.24	
Interest at 4% per annum on monthly balances at the credit of the account	25,439.89	
		138,988.69
		$774,235.55
Deduct:		
Expenditures during the year ending October 31, 1930		31.62
Balance carried forward October 31, 1930		$774,203.93

THUNDER SYSTEM *SINKING FUND*

Statement showing Sinking Fund paid by each Municipality in the periods mentioned hereunder as part of the cost of power delivered thereto, together with its proportionate share of other Sinking Funds, provided out of other revenues of the system and interest allowed thereon to October 31, 1930

Municipality	Period of years ending October 31, 1930	Amount
		$ c.
Fort William	4 years	123,494.54
Nipigon twp	4 "	681.22
Port Arthur	4 "	439,017.04
		563,192.80

SYSTEM *CREDIT OR CHARGE*

supplied to it to October 31, 1929; the payments thereon and interest added during of power supplied in the year ending October 31, 1930 and the accumulated municipality on October 31, 1930

Interest at 4% per annum added during the year	Net amount credited in respect of power supplied in the year ending October 31, 1930	Accumulated amount standing as a credit on October 31, 1930
Credited	Credited	Credited
$ c.	$ c.	$ c.
90.92	405.62	496.54
12.98	570.58	583.56
293.94	1,689.67	1,983.61
397.84	2,665.87	3,063.71

THUNDER BAY SYSTEM

Reserve for Obsolescence and Contingencies, October 31, 1930

Balance brought forward October 31, 1929		$521,483.80
Added during the year ending October 31, 1930:		
Amounts charged to municipalities as part of the cost of power delivered to them	$189,808.20	
Provision against equipment employed in respect of contracts with private companies which purchased power	96,444.23	
Interest at 4% per annum on monthly balances at the credit of the account	20,859.35	
		307,111.78
Balance carried forward October 31, 1930		$828,595.58

THUNDER BAY SYSTEM

Reserve for Sinking Fund, October 31, 1930

Total provision for sinking fund to October 31, 1929		$409,789.88
Provided in the year ending October 31, 1930:		
By charges included in the cost of power delivered to municipalities	$92,219.54	
By charges against contracts with private companies which purchased power	44,791.78	
Interest at 4% per annum on the amount standing at the credit of the account	16,391.60	
		153,402.92
Balance carried forward October 31, 1930		$563,192.80

SUDBURY DISTRICT—

Operating Account for the

COST OF OPERATION

Cost of operating and maintaining generating plants, transmission lines and stations, including water rentals and the proportion of administrative expenses of the Commission chargeable to the operation of the properties		$78,049.11
Engineering and other expenses in connection with arrangements for an additional supply of power for this district		3,834.68
Interest on bonds of the Wahnapitae Power Co. Limited, $458,100.00, assumed by the Commission and outstanding	$29,785.19	
Interest on the capital investment of the Commission in the Wahnapitae properties	108,057.91	
		137,843.10
		$219,726.89
Balance of cost of rebuilding dams		96,289.31
Provision for contingencies		10,582.50
		$326,598.70

PATRICIA DISTRICT—

Operating Account for the Ten

COST OF OPERATION

Cost of operating and maintaining generating plant at Ear Falls, including water rentals and the proportion of administrative expenses chargeable to the operation of the property	$16,376.64
Interest on capital investment	18,085.32
	$34,461.96

WAHNAPITAE PROPERTIES

Year Ending October 31, 1930

Revenue for Period

Power sold at fixed rates to private consumers and to municipalities	$326,598.70
	$326,598.70

(EAR FALLS GENERATING PLANT)

Months Ending October 31, 1930

Revenue for Period

Power sold to private consumer	$30,069.99
Excess of operating expenses and interest over revenue	4,391.97
	$34,461.96

HYDRO-ELECTRIC POWER

Account

The Provincial

For the Year ending

Niagara and

May 16, 1930	Cash returned to the Province, being the difference between advances by the Province to the Commission and the capital expenditures made out of such advances by the Commission in the year ending October 31, 1929.........		$1,097,312.13
Oct. 31, 1930	Repayment to the Province of the investment in the distribution systems in Belleville, Oshawa, Port Hope, Brighton and Napanee (in the former Central Ontario system) upon the sale of these properties to the municipalities..............................		1,157,522.73
Oct. 31, 1930	Cash returned to the Province, being the amounts accumulated to October 31, 1928, in amortization and other reserves for the purpose of reducing the investment in certain properties and plants of the system formerly known as "Central Ontario"........................		478,544.64
April 30, 1930	Paid on account of interest..................	$4,355,856.22	
Oct. 31, 1930	Cheque to cover balance of interest for year ending October 31, 1930..................	4,416,434.49	8,772,290.71
Oct. 31, 1930	Payment under debt retirement plan........................		1,607,427.82
Oct. 31, 1930	Balance carried down....................................		176,799,442.30
			$189,912,540.33

COMMISSION OF ONTARIO

with

Treasurer

October 31, 1930

Other Systems

Oct. 31, 1929	Cash advances to date	$173,589,916.68	
	Less repayments to that date under debt retirement plan	9,067,606.06	$164,522,310.62
Nov. 1, 1929 to Oct. 31, 1930	Sundry cash advances		16,617,939.00
Oct. 31, 1930	Interest for year on all cash advances	$9,222,175.22	
	Less—Interest credited by Province on repayments made by Commission	449,884.51	8,772,290.71
			$189,912,540.33

Nov. 1, 1930	Total cash advances	$187,474,476.18
	Less—Payments made under debt retirement plan	10,675,033.88
		$176,799,442.30

SANDWICH, WINDSOR AND AMHERSTBURG RAILWAY

Operating Account for the Year Ending October 31, 1930

EXPENDITURE

Transportation expenses	$359,072.82	
Maintenance—way and structures	58,324.48	
Maintenance—equipment	144,618.11	
Power	123,074.30	
Rental of motor buses	96,583.51	
General operating and management expenses	68,148.81	
Proportion of administrative and accounting expenses of the Commission chargeable to the operation of the railway	23,125.10	
Taxes	5,590.40	
Insurance—fire and liability	61,493.63	
Total operating expenses		$940,031.16
Interest		273,499.93
Provision for sinking fund		12,899.25
		$1,226,430.34

REVENUE

Passenger	$1,043,399.42	
Freight and express	14,581.28	
Miscellaneous	20,457.05	
Total revenue		$1,078,437.75
Deficit for the year charged to the municipalities		147,992.59
		$1,226,430.34

Reserve for Renewals, October 31, 1930

Total provision for renewals to October 31, 1929	$245,533.18	
Deduct:		
Expenditures to October 31, 1929	191,847.54	
Balance brought forward October 31, 1929		$53,685.64
Added during the year ending October 31, 1930:		
Interest at 4% on the monthly balances to the credit of the account		2,147.48
		$55,833.12
Deduct:		
Expenditures during the year ending October 31, 1930		37,480.46
Balance carried forward October 31, 1930		$18,352.66

GUELPH RADIAL RAILWAY

Operating Account for the Year ending October 31, 1930

Expenditure

Transportation expense	$26,716.24	
Maintenance—way and structures	9,579.88	
Maintenance—equipment	17,882.20	
Electric power and motor fuel	11,607.50	
Rental of motor buses	555.20	
General operating and management expenses	7,492.11	
Proportion of administrative and accounting expenses of the Commission chargeable to the operation of the railway	2,588.05	
Insurance	4,413.59	
Taxes	514.89	
Written off valuation and other expenses, re purchase by the Commission	256.30	
		$81,605.96
Interest		15,199.76
Provision for instalments payable to the city of Guelph on May 1, 1930, and November 1, 1930 under purchase agreement:		
Interest for year	$4,392.99	
On account of principal	7,307.01	
		11,700.00
Provision for renewal of road and equipment		10,701.42
		$119,207.14

Revenue

Operating revenue	$86,278.41
Net deficit for year after provision for instalments on account of principal and interest payable to the city of Guelph	32,928.73
	$119,207.14

Reserve for Renewals, October 31, 1930

Total provision for renewals to October 31, 1929		$41,344.47
Deduct:		
Expenditures to October 31, 1929		8,770.39
Balance brought forward October 31, 1929		$32,574.08
Added during the year ending October 31, 1930:		
By appropriation for the year	$10,701.42	
Interest at 4 per cent. on the monthly balances to the credit of the account	1,283.76	
		11,985.18
		$44,559.26
Deduct:		
Expenditures during the year ending October 31, 1930		14,144.77
		$30,414.49

APPROPRIATIONS, ADVANCES AND CAPITAL EXPENDITURES

For the year ending October 31, 1930

Appropriations made by the Legislature for the purposes of the Commission, Cash Advances by the Province to the Commission on account of such appropriations, and the Capital Expenditures made on each Undertaking and System by the Commission out of such Cash Advances in the Year Ending October 31, 1930

SUMMARY

NIAGARA SYSTEM

Appropriations by Legislature and by treasury board minute:			
For power developments		$4,591,943.00	
For transmission lines, transformer stations and rural distribution systems		$5,309,000 00	
For eastern transmission lines and stations		$4,527,649.00	
		14,428,592.00	
Cash advances to the Commission out of such appropriations and treasury board minute		$10,219,685.00	
Unexpended balance as at October 31, 1930, returnable to Province		189,026.19	
			$10,030,658.81
Capital expenditure by the Commission:			
On Queenston-Chippawa development		$535,487.57	
On Chats Falls development		1,862,230.18	
On right-of-way		26,241.91	
On steel-tower lines		154,472.54	
On wood-pole lines		59,836.76	
On transformer stations		2,150,536.17	
On eastern lines		1,808,460.47	
On eastern stations		2,501,396.17	
On rural power districts		933,273.74	
		$10,031,935.51	
On Ontario Power generating plant:			
Receipts in excess of expenditures	$10.13		
On rural lines:			
Receipts in excess of expenditures	1,266.57		
		1,276.70	
			$10,030,658.81

GEORGIAN BAY SYSTEM

Appropriations by Legislature, by special warrant and by treasury board minute		$2,183,456.00	
Cash advances to the Commission out of such appropriations, special warrant and treasury board minute		$1,675,549.00	
Deduct—Capital expenditures in the year ending October 31, 1929 in excess of cash advances by the Province		30,158.93	
		$1,645,390.07	
Unexpended balance as at October 31, 1930, returnable to Province		14,758.06	
			$1,630,632.01
Capital expenditure by the Commission:			
On power development		$103,653.65	
On transmission lines		427,368.17	
On transformer stations		391,480.03	
On rural power districts		165,637.48	
On local distributing systems		21,260.22	
On Walkerton and Saugeen properties:			
Purchase price (amount paid to Public Utilities Consolidated Corporation)	$520,000.00		
Extensions and betterments	1,232.46		
		521,232.46	
			$1,630,632.01

EASTERN ONTARIO SYSTEM

Appropriations by Legislature and by treasury board minute:			
For Central Ontario district		$732,500.00	
For St. Lawrence, Rideau, Ottawa and Madawaska districts		1,262,000.00	
For Nipissing district		150,000.00	
		$2,144,500.00	
Cash advances to the Commission out of such appropriations and treasury board minute		$1,120,250.00	
Unexpended balance as at October 31, 1930, returnable to Province		160,402.86	
			$959,847.14
Capital expenditure by the Commission:			
On power development—Eastern Ontario System	$29,107.07		
On transmission lines—Eastern Ontario system	51,676.46		
On transformer stations—Eastern Ontario system	174,874.12		
On utilities—Eastern Ontario system	16,616.01		
On rural power districts—Eastern Ontario system	465,595.91		
		$737,869.57	
On power development—Nipissing district	$57,874.67		
On transmission lines—Nipissing district	1,107.67		
On utilities—Nipissing district	10,921.26		
On rural power districts—Nipissing district	939.65		
	$70,843.25		
On transformer stations—Nipissing district:			
Receipts in excess of expenditures	1,313.81		
		69,529.44	
On Madawaska district		153,668.46	
		$961,067.47	
On Ottawa River surveys:			
Receipts in excess of expenditures		1,220.33	
			$959,847.14

THUNDER BAY SYSTEM

Appropriations by Legislature	$4,250,000.00	
Cash advances to the Commission out of such appropriations	$2,352,468.00	
Deduct—Capital expenditures in the year ending October 31, 1929 in excess of cash advances by the Province	8,713.77	
	$2,343,754.23	
Unexpended balance as at October 31, 1930, returnable to Province	23,368.92	
		$2,320,385.31
Capital expenditure by the Commission:		
On power development	$2,246,638.54	
On transmission lines	37,646.06	
On transformer stations	36,100.71	
		$2,320,385.31

NORTHERN ONTARIO SYSTEM

(Sudbury (Wahnapitae) and Patricia Districts)

Appropriations by Legislature and by special warrant	$2,526,410.00	
Cash advances to the Commission out of such appropriations and special warrant	$1,237,987.00	
Expended out of the Commission's working funds	29,470.19	
		$1,267,457.19
Capital expenditure by the Commission:		
On generating plants—Sudbury district (Wahnapitae)	$ 1,499.18	
On transmission lines—Sudbury district (Wahnapitae)	144,939.01	
On transformer stations—Sudbury district (Wahnapitae)	260.92	
On local distributing systems—Sudbury district (Wahnapitae)	966.12	
On purchase of 3,311 shares of stock of the Wahnapitae Power Company	1,026,410.00	
On power development—Patricia district (Ear Falls)	93,381.96	
		$1,267,457.19

MISCELLANEOUS

Appropriations by Legislature	$1,000,000.00	
Cash advances to the Commission out of such appropriations	$12,000.00	
Unexpended balance as at October 31, 1930, returnable to Province	1,156.67	
		$10,843.33
Capital expenditure by the Commission:		
On service buildings and equipment		10,843.33

RURAL POWER DISTRICTS—SUMMARY

Statement showing the total capital expenditures to October 31, 1930 on the construction of primary and secondary lines in Rural Power Districts, the portions thereof in course of construction; the investment in lines in operation; the amounts of grants (fifty per cent. of both primary and secondary lines) payable to the Commission by the Province of Ontario; also the extents to which grants stand authorized by Orders-in-Council under the Rural Hydro-Electric Distribution Act, and the amounts of such grants paid over by the Province to the Commission under such authorizations up to October 31, 1930

System	Total capital expenditure	In course of construction	In operation	Grants (50% of primary and secondary lines) payable by the Province	Extents to which grants stand authorized by orders-in-council	Grants paid by Province to Commission under such authorizations
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Niagara system	9,666,730.10	211,748.97	9,454,981.13	4,827,435.02	6,004,786.97	4,827,707.43
Georgian Bay system	869,179.56	88,571.70	780,607.86	411,818.17	519,336.20	410,945.74
Eastern Ontario system	1,900,032.13	189,807.62	1,710,224.51	944,331.79	1,174,670.39	944,237.21
Ottawa district	199,190.40	22,183.19	177,007.21	99,595.20	124,548.26	99,595.20
Madawaska district	12,325.00	12,325.00	....	6,162.50	8,625.50	6,162.50
Northern Ontario System— Nipissing district	17,791.32	....	17,791.32	8,611.03	9,784.00	8,611.03
	12,665,248.51	524,636.48	12,140,612.03	6,297,953.71	7,841,751.32	6,297,259.11
Additional sum authorized by above Orders-in-Council and paid over to Commission, but not allocated as between rural power districts						79,549.99
						6,376,809.10

NOTE:—

The cash paid over by the Province to the Commission up to October 31, 1930 on account of authorized grants to rural power districts—as above set out—amounts to	$6,376,809.10	
The grants payable by the Province—as above set out—in respect of rural power districts as at October 31, 1930 amount in the aggregate to	6,297,953.71	
A balance of		$78,855.39
which balance represents:		
(a) Grant funds in the hands of the Commission at October 31, 1930 not allocated but to apply against the construction of authorized rural power districts and extension to existing districts	$79,549.99	
(aa) Grant funds in the hands of the Commission at October 31, 1930 to apply against the construction of or extensions to existing lines in certain rural power districts	587.92	
	$80,137.91	
Less:		
(b) Grants (or balances thereof) payable by the Province to the Commission in respect of certain rural power districts completed or under construction	1,282.52	
		$78,855.39

SECTION X

MUNICIPAL ACCOUNTS

And Statistical Data Relating to Hydro-Electric Distribution Systems Operated by Individual Municipalities Served by The Hydro-Electric Power Commission

The Municipal Accounts section of this report presents in summary, and individually, the results of the operation of the local electrical utilities in municipalities owning their own distributing system and operating with energy supplied by or through the Hydro-Electric Power Commission.

Financial statements prepared from the books of these "Hydro" utilities are submitted herein to show how each has operated during the past year, and the financial status at the present time. Other tables give much useful statistical information respecting average costs for the various classes of service and the rates in force.

The books of account of the local electrical utilities in all municipalities which have contracted with the Hydro-Electric Power Commission of Ontario for a supply of power are kept in accordance with a uniform accounting system designed by the Commission. During the year 1930, the uniform accounting system was installed in the following municipalities as each became ready for the service: Brighton, Port Hope, Napanee, Madoc, Stirling, Cardinal and Windermere.

Periodical inspections are made of the books of all "Hydro" electrical utilities and local officials are assisted in the improvement of their office routine with a view to standardizing, as far as possible, the methods employed. In the majority of the smaller municipalities, much of the bookkeeping for the electrical utilities is performed by representatives of the Municipal Audit department of the Commission, in order to insure the employment of proper classifications of revenues and expenditures, to save time in preparation of reports, to insure compliance with all the requirements of the standard accounting system, and to make certain that the accounts represent as truly as possible the actual operating results for the year.

The first financial statement in this section presents consolidated balance sheets for each year since 1912, and thus shows the march of progress. It combines the balance sheets of the local municipal utilities of all the systems. It is worth noting that the total plant value has increased from $10,081,469.16 in 1913 to $80,129,286.29 in 1930, and the total assets from $11,907,826.86 to $116,400,634.91. The liabilities have not increased in the same proportion as the assets, rising from $10,468,351.79 to $50,141,429.00. The reason for this is that much of the cost of the increasing plant value has been financed out of surplus and reserve accounts without increasing the liabilities of the various systems. By this procedure the funds of the systems are used to best advantage. Examination of the results will also show that there is a steady decline in the percentage of net liabilities to total assets; being from 88.0 per cent in 1913 to 46.0 per cent in 1930. The equities in the Hydro-Electric Power Commission's systems automatically acquired through the inclusion of sinking funds as part of the cost of power are not taken into account in arriving at these percentages.

The second financial statement presents consolidated operating reports for each year since "Hydro" service was inaugurated and combines the results from the local municipal utilities of all the systems. Study of this statement will show that the revenue has been increasing satisfactorily. The combined annual surplus, after providing for every cost of operation and fixed charges, including an adequate depreciation charge, amounted in 1930 to $1,900,694.51.

The five statements, "A" to "E," following the two consolidated reports show the financial status of each municipal system and the results of operations, and also give information respecting revenue, number of consumers and consumption; cost of power to municipalities; power and lighting rates charged to consumers, etc. In the statements "A" and "B," the municipalities are arranged alphabetically under each system; in statement "D" the municipalities are arranged in three groups—cities, towns and small municipalities; in statements "C" and "E" all municipalities are arranged alphabetically.

Statement "A" shows balance sheets for each municipality with the plant values subdivided into the general natural subdivisions specified in the standard accounting system, and there are also shown the other items which make up the total assets. It is to be noted that among the assets there are items entitled "equity in H-E.P.C. systems." These items represent the amount of accumulated sinking fund paid by the various municipalities through the medium of "power cost" toward the ultimate retirement of the capital invested by the Hydro-Electric Power Commission on behalf of the partner municipalities. The total accumulation to the end of 1930 is shown on the consolidated balance sheet to be $17,346,372.44.

During the year rebates were made in many municipalities in respect to surpluses standing to the credit of municipal street lighting and waterworks services, and to individual consumers, of amounts varying from one-sixth to one-fourth of the previous year's revenue. These rebates amounted in round figures to approximately $278,600.00 and affected the cash balances and surpluses in the current balance sheets accordingly.

In each case the balance sheet is complete and final, including either in "accounts receivable," or "accounts payable," the adjustments with the Hydro-Electric Power Commission of the differences between the estimated and the actual costs of power to the municipality.

The liabilities of each local system are set out under their general subdivisions,—debenture balance, accounts payable, bank overdraft, and other liabilities; this last account including local debentures issued by municipalities to finance ornamental street-lighting systems as local improvements.

The reserves for depreciation, and the acquired equity in the Hydro-Electric Power Commission's systems, are also listed separately and totalled; and under the heading "surplus" are included not only the free operating profit but the accumulation of sinking fund applicable to debenture debt and also the amount of debentures already retired out of revenue.

The "depreciation reserve" now amounts to 18.23 per cent of the total depreciable plant, while the "depreciation reserve" and "surplus" combined have already reached the sum of $47,338,177.73, approximating 59.15 per cent of the total plant cost.

Statement "B" shows detailed operating reports for each municipal electrical utility. It gives annual revenues from the various classes of consumers; the items of expenditure which make up the total annual expenditure; the amount of the annual surpluses and the sums set aside for depreciation. The population served by each local utility, and the number of consumers of each class, are also shown.

The item "power purchased" includes the annual adjustment made by the Commission, and hence shows for the calendar year the actual cost to the municipal electrical utility and not the cost at the interim billed rates.

Of the 267 municipal electrical utilities included in this statement, 220 had revenue from consumers sufficient to meet all operating expenses and fixed charges and to yield an aggregate operating surplus of $1,935,147.68 for the year; 30 were able to defray all operating and fixed charges except depreciation, but failed to set aside the full theoretical amounts for that reserve by $17,598.61; only 17 had gross deficits in respect of operating expenses and fixed charges other than depreciation, aggregating $9,375.56. The net surplus for all "Hydro" utilities was $1,900,694.51 for the year.

Statement "C" shows the installation of street lights in each municipality together with the rates set by this Commission, the revenue for 1930, and the cost per capita in each municipality.

Statement "D" presents statistics relating to the supply of electrical energy to consumers in Ontario municipalities served by the Commission. It shows the revenue, kilowatt-hour consumption, number of consumers, average monthly consumption, average monthly bill and the net average cost per kilowatt-hour both for domestic and for commercial light service in each municipality. For power service this statement shows the revenue, the number of consumers and the average horsepower supplied by the municipal utility.* For further reference to this informative statement, consult the special introduction to it on page 366.

Statement "E" presents the cost per horsepower of the power provided for and delivered to the municipalities by the Commission, and the local rates to consumers in force in the respective municipalities, during the year 1930, for domestic service, for commercial light service and for power service.

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*The statistics include retail power only. Wholesale industrial power as supplied by the Commission direct, is reported in Section IX.

CONSOLIDATED

YEAR	1913	1914	1915
Number of municipalities included	45	69	99
ASSETS	$ c.	$ c.	$ c.
Lands and buildings	626,707.34	791,732.20	873,838.18
Substation equipment	1,090,875.69	1,476,087.84	1,582,062.56
Distribution system—overhead	2,690,834.74	3,422,763.93	4,234,626.05
Distribution system—underground	644,514.24	807,153.53	928,420.77
Line transformers	615,546.20	787,613.52	981,754.70
Meters	840,606.64	1,172,475.11	1,418,165.08
Street lighting equipment—regular	900,614.80	1,071,255.37	1,309,628.49
Street lighting equipment—ornamental	62,765.34	270,386.55	197,644.82
Miscellaneous construction expenses	866,551.89	2,062,035.90	1,701,182.66
Steam or hydraulic plant	1,401,175.28	420,108.33	461,651.60
Old plant	341,277.00	619,513.12	1,184,372.86
Total plant	10,081,469.16	12,901,125.40	14,873,347.77
Bank and cash balance	450,887.97	422,350.12	284,653.96
Securities and investments	....	....	....
Accounts receivable	344,487.95	561,873.08	602,920.69
Inventories	540,274.58	615,226.76	726,556.76
Sinking fund on local debentures	431,747.27	625,217.03	868,983.78
Equity in H-E.P.C. systems	....	....	....
Other assets	58,959.93	123,410.97	326,801.11
Total assets	11,907,826.86	15,249,203.36	17,683,264.07
LIABILITIES			
Debenture balance	8,711,308.37	10,678,078.36	11,831,811.03
Accounts payable	1,553,711.45	1,682,150.29	2,040,038.01
Bank overdraft	160,919.16	228,622.50	292,106.44
Other liabilities	42,412.81	113,838.66	37,388.31
Total liabilities	10,468,351.79	12,702,689.81	14,201,343.79
RESERVES			
For equity in H-E.P.C. system	....	....	....
For depreciation	478,145.88	850,618.07	1,337,739.73
Other reserves	....	....	....
Total reserves	478,145.88	850,618.07	1,337,739.73
SURPLUS			
Debentures paid	202,751.26	320,129.10	394,466.22
Local sinking fund	431,747.27	625,217.03	868,983.78
Additional operating surplus	326,830.66	750,549.35	880,730.55
Total surplus	961,329.19	1,695,895.48	2,144,180.55
Total liabilities, reserves and surplus	11,907,826.86	15,249,203.36	17,683,264.07
Percentage of net debt to total assets	88	88.3	80.3

NOTE.—In computing the percentage of net debt to total assets the sinking fund on local debentures and equity in H-E.P.C. systems are excluded from assets, and total liabilities are reduced by amount of local sinking fund.

BALANCE SHEET

1916	1917	1918	1919	1920	1921
128	143	166	191	195	215
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,335,936.33	1,546,241.41	1,859,888.69	1,995,545.83	2,175,568.24	3,230,985.63
1,934,626.12	2,471,293.82	2,820,448.70	2,915,125.56	3,231,050.80	5,403,689.90
4,832,353.27	6,080,073.42	6,627,237.39	7,445,820.31	8,579,881.49	8,397,361.48
1,095,709.62	1,157,059.90	1,216,288.59	1,206,296.88	1,313,369.29	1,401,135.07
1,179,132.07	1,483,839.44	1,772,691.35	2,073,114.45	2,560,581.59	3,077,649.83
1,711,299.49	1,999,095.48	2,238,143.70	2,587,566.32	3,053,135.20	3,552,076.79
1,251,057.13	1,237,734.69	1,200,625.65	1,206,638.71	1,269,006.98	1,335,997.13
306,388.95	361,975.74	531,502.61	546,497.68	557,678.13	610,586.70
2,059,263.42	2,184,015.84	2,395,096.50	2,430,101.08	2,697,636.12	3,030,134.16
864,500.01	896,753.20	214,575.75	986,200.57	757,194.47	704,848.46
759,748.66	649,852.51	1,476,413.00	805,959.89	864,298.39	912,388.55
17,330,015.07	20,077,935.45	22,352,951.93	24,298,866.28	27,059,400.70	31,565,854.60
1,061,029.90	340,026.50	391,194.91	462,437.23	943,858.12	900,842.34
....	....	....	627,076.53	341,855.88	556,608.53
695,152.23	1,285,097.33	1,124,018.44	1,921,166.69	2,022,538.88	2,148,287.05
764,504.59	1,261,398.36	972,996.96	1,032,569.75	1,400,671.89	1,504,596.28
1,166,017.73	1,337,578.96	1,663,298.05	1,925,455.77	2,244,004.34	2,541,618.35
....	....	....	369,071.89	577,584.06	795,570.51
342,215.87	125,240.05	444,787.63	86,216.05	25,447.07	78,929.84
21,358,935.39	24,427,276.65	26,949,247.92	30,722,860.19	34,615,360.94	40,111,979.23
15,058,641.57	15,593,773.61	17,209,217.70	18,133,462.44	19,268,072.04	21,619,220.99
969,187.75	1,537,669.11	1,007,727.79	1,420,926.66	1,840,137.54	1,887,567.93
178,413.26	886,177.94	576,816.49	403,235.57	514,671.99	989,099.98
491,874.90	429,104.20	350,013.21	670,271.90	642,293.65	938,368.84
16,698,117.48	18,446,724.86	19,143,775.19	20,627,896.57	22,265,175.22	25,434,257.74
....	....	....	373,871.89	577,584.06	800,249.05
1,843,804.68	2,463,723.83	3,133,550.17	3,750,162.28	4,788,645.03	5,491,858.93
....	....	....	....	....	....
1,843,804.68	2,463,723.83	3,133,550.17	4,124,034.17	5,366,229.09	6,292,107.98
549,778.59	694,797.90	920,076.56	1,328,657.68	1,440,157.52	1,860,079.53
1,165,785.94	1,340,615.38	1,662,602.69	1,754,020.37	2,246,474.47	2,541,618.35
1,101,448.70	1,481,414.68	2,089,243.31	2,888,251.40	3,297,325.64	3,983,815.63
2,817,013.23	3,516,827.96	4,671,922.56	5,970,929.45	6,983,956.63	8,385,613.51
21,358,935.39	24,427,276.65	26,949,247.92	30,722,860.19	34,615,360.94	40,111,979.23
78.4	75.5	71.0	67.9	65.4	64.7

CONSOLIDATED

YEAR	1922	1923	1924
Number of municipalities included	226	235	248
ASSETS	$ c.	$ c.	$ c.
Lands and buildings	3,334,552.68	4,488,054.93	4,561,648.92
Substation equipment	5,046,857.98	6,015,919.75	6,800,238.00
Distribution system—overhead	11,165,330.24	13,135,581.76	14,182,190.33
Distribution system—underground	1,598,053.02	1,959,120.41	2,873,446.13
Line transformers	3,618,684.73	4,211,655.89	4,456,669.02
Meters	4,033,689.52	4,548,933.73	5,149,629.71
Street lighting equipment—regular	1,419,016.05	1,061,473.85	1,134,491.77
Street lighting equipment—ornamental	666,084.50	708,431.22	728,298.08
Miscellaneous construction expenses	3,261,495.74	3,681,274.88	4,168,262.21
Steam or hydraulic plant	565,158.54	566,619.86	4,196,803.45
Old plant	7,997,947.87	8,051,496.28	5,587,420.31
Total plant	42,706,840.87	48,428,562.56	53,839,097.93
Bank and cash balance	1,164,336.24	1,276,140.06	1,748,912.34
Securities and investments	443,938.18	1,153,424.47	1,329,622.58
Accounts receivable	3,874,317.14	3,198,769.34	3,898,751.89
Inventories	1,738,795.96	1,819,711.62	1,745,628.16
Sinking fund on local debentures	3,416,231.45	3,896,261.28	4,520,723.06
Equity in H-E.P.C. systems	1,543,434.12	2,929,603.94	5,420,567.58
Other assets	238,940.13	190,071.63	250,292.77
Total assets	55,126,834.09	62,892,544.90	72,753,596.31
LIABILITIES			
Debenture balance	30,454,186.12	33,056,501.29	38,005,162.50
Accounts payable	3,669,292.52	3,708,781.76	3,117,224.08
Bank overdraft	456,706.69	680,814.59	162,100.71
Other liabilities	586,203.02	1,517,828.47	1,780,564.27
Total liabilities	35,196,388.35	38,963,826.11	43,065,051.56
RESERVES			
For equity in H-E.P.C. systems	1,543,434.12	2,929,603.94	5,420,567.58
For depreciation	6,512,813.92	7,328,858.69	8,097,834.68
Other reserves			
Total reserves	8,056,248.04	10,258,462.63	13,518,402.26
SURPLUS			
Debentures paid	3,104,591.15	2,852,038.38	3,530,610.35
Local sinking fund	3,416,231.45	3,896,261.28	4,520,723.06
Additional operating surplus	5,353,375.10	6,921,956.50	8,118,809.08
Total surplus	11,874,197.70	13,670,256.16	16,170,142.49
Total liabilities, reserves and surplus	55,126,834.09	62,892,544.90	72,753,596.31
Percentage of net debt to total assets	63.3	62.6	61.4

BALANCE SHEET

1925	1926	1927	1928	1929	1930
247	251	252	256	260	267
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
5,768,855.99	6,111,162.54	6,486,426.89	7,024,646.76	7,469,451.46	7,936,974.31
8,543,166.55	9,505,501.77	15,088,905.14	16,866,186.21	18,102,792.13	19,485,056.28
16,837,535.57	18,654,240.54	16,689,462.41	17,688,050.68	18,108,016.82	19,220,326.48
3,388,837.09	3,689,569.95	3,278,382.58	3,559,288.16	4,823,369.60	4,932,189.05
5,079,754.23	5,538,605.24	5,985,521.37	6,549,674.64	7,312,742.17	7,953,090.23
5,533,483.92	5,963,162.51	6,346,660.59	6,839,802.90	7,405,478.91	7,840,948.07
1,256,916.53	1,309,608.30	1,399,314.06	1,486,646.24	1,594,183.25	1,780,785.67
893,186.48	1,103,660.23	1,184,035.82	1,203,706.65	1,458,349.64	1,520,891.01
4,485,110.96	3,456,777.71	3,360,671.09	3,394,626.92	3,483,487.78	3,996,747.77
568,912.49	628,909.57	607,320.00	619,880.93	489,097.57	139,587.28
4,549,142.46	4,655,422.59	5,095,555.90	5,032,089.26	5,093,378.75	5,322,690.14
56,904,902.27	60,616,620.95	65,522,255.85	70,264,599.35	75,340,348.08	80,129,286.29
1,700,145.30	2,136,290.79	3,014,832.48	1,342,367.07	858,733.68	2,722,250.12
1,095,662.92	1,400,316.43	1,696,237.66	1,837,140.51	2,001,088.81	1,909,439.11
3,417,558.86	3,508,817.87	3,715,770.72	4,097,446.13	4,683,201.97	4,481,006.92
1,711,504.13	1,397,667.83	1,412,729.41	1,220,186.10	1,365,033.58	1,242,994.51
5,202,451.70	5,599,675.01	6,398,909.77	7,071,273.69	7,753,613.88	8,396,255.47
7,551,588.70	8,046,868.53	10,143,205.66	12,326,097.56	14,754,865.40	17,346,372.44
137,280.05	33,151.81	31,942.45	153,275.04	152,260.86	173,030.05
77,721,093.93	82,739,409.22	91,935,884.00	98,312,385.45	106,909,146.26	116,400,634.91
37,919,225.01	39,602,533.48	42,891,361.57	42,597,175.78	42,930,127.74	45,091,808.06
3,139,067.92	3,118,684.78	2,988,621.90	3,074,634.25	3,132,145.03	3,001,186.21
226,147.82	163,725.53	252,362.52	253,143.81	412,056.69	405,663.14
1,075,914.83	1,087,795.08	1,154,810.24	1,258,610.23	1,621,378.17	1,642,771.59
42,360,355.58	43,972,738.87	47,287,156.23	47,183,564.07	48,095,707.63	50,141,429.00
7,551,588.70	8,046,868.53	10,143,205.66	12,326,097.56	14,754,865.40	17,346,372.44
8,699,437.68	9,360,322.27	10,319,889.05	11,140,795.68	11,911,154.49	12,885,387.51
1,157,147.20	947,970.23	1,002,916.69	1,117,257.63	1,437,371.26	1,574,655.74
17,408,173.58	18,355,161.03	21,466,011.40	24,584,150.87	28,103,391.15	31,806,415.69
4,440,138.34	5,493,879.83	6,648,767.38	7,928,907.61	9,194,253.59	10,728,279.15
5,202,451.70	5,599,675.01	6,398,909.77	7,071,273.69	7,962,121.20	8,396,255.47
8,309,074.73	9,317,954.48	10,135,039.22	11,544,489.21	13,553,672.69	15,328,255.60
17,952,564.77	20,411,509.32	23,182,716.37	26,544,670.51	30,710,047.48	34,452,790.22
77,721,093.93	82,739,409.22	91,935,884.00	98,312,385.45	106,909,146.26	116,400,634.91
57.2	55.5	54.2	50.8	47.8	46.0

CONSOLIDATED

YEAR	1912	1913	1914	1915
Number of municipalities included	28	45	69	99
EARNINGS	$ c.	$ c.	$ c.	$ c.
Domestic service		572,154.38	789,130.81	944,271.08
Commercial light service		525,438.16	673,803.92	720,209.26
Commercial power service		905,378.17	1,214,829.31	1,501,797.78
Municipal power				
Street lighting		560,925.56	698,409.71	835,970.87
Rural service				
Miscellaneous		53,543.24	57,482.41	68,046.29
Total earnings	1,617,674.00	2,617,439.51	3,433,656.16	4,070,295.28
EXPENSES				
Power purchased		789,632.87	1,045,752.65	1,485,614.72
Substation operation		78,394.81	97,658.90	107,607.31
Substation maintenance		18,698.46	31,790.99	25,935.56
Distribution system, operation and maintenance		104,114.51	130,998.65	154,409.71
Line transformer maintenance		8,547.61	11,764.32	11,508.92
Meter maintenance		5,222.19	9,536.07	12,899.14
Consumers' premises expenses		53,108.38	65,192.23	47,494.26
Street lighting, operation and maintenance		84,903.76	113,047.80	136,983.38
Promotion of business		72,303.51	86,683.02	74,402.55
Billing and collecting		77,351.76	103,560.71	131,541.27
General office, salaries and expenses		154,932.69	230,899.75	236,777.86
Undistributed expense		65,423.64	89,350.91	129,209.15
Interest		528,549.21	662,092.34	817,978.89
Sinking fund and principal payments on debentures		*	*	*
Total expenses	1,377,168.00	2,041,183.40	2,678,328.34	3,371,414.00
Surplus	240,506.00	576,256.11	755,327.82	698,881.28
Depreciation charge	124,992.47	262,675.24	357,883.31	414,506.99
Surplus less depreciation	115,513.53	313,580.87	397,444.51	284,374.29

*Debenture payments included in "Interest."

OPERATING REPORT

1916	1917	1918	1919	1920	1921
128	143	166	181	186	205
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,172,878.96	1,417,460.31	1,632,272.12	1,991,632.31	2,546,345.30	3,149,080.03
812,130.78	899,023.72	968,399.42	1,175,143.56	1,512,854.63	1,851,501.76
1,921,152.31	2,665,280.65	3,417,248.37	3,443,107.13	3,752,188.22	3,895,437.46
....	....	....	....	532,279.09	654,531.01
930,057.48	967,495.10	902,875.55	988,900.95	1,005,535.11	1,060,357.77
....	....	....	....	168,919.95	145,566.57
147,381.50	120,805.39	161,243.70	228,270.65	189,778.63	225,467.70
4,983,601.03	6,070,065.17	7,082,039.16	7,827,054.60	9,707,900.93	10,981,942.30
1,959,446.83	2,563,880.17	2,807,769.33	3,284,490.68	4,216,667.87	4,876,650.31
153,761.08	203,091.20	238,257.34	217,638.89	285,407.35	314,838.35
46,131.53	42,129.04	60,805.92	81,853.63	102,050.81	104,798.01
154,247.17	169,326.24	223,347.81	286,310.76	344,551.57	487,918.33
14,528.17	25,328.95	30,488.83	42,509.12	46,323.09	65,088.46
24,218.48	44,461.55	63,155.56	78,726.64	123,701.18	116,722.97
52,602.01	61,765.14	65,149.59	84,301.24	116,283.52	134,854.92
145,471.50	157,857.73	196,157.18	215,963.86	236,930.79	297,481.52
79,324.85	73,516.37	64,962.78	77,789.22	78,294.85	101,804.46
154,508.58	188,083.84	208,660.76	236,504.75	295,942.88	321,685.71
306,709.35	349,932.05	421,680.15	452,131.22	559,695.29	656,268.11
97,333.97	102,938.80	117,474.07	190,690.09	256,400.33	308,874.42
951,781.99	1,085,180.80	1,238,425.53	1,285,571.51	1,431,807.16	998,611.47
*	*	*	*	*	532,183.96
4,140,065.51	5,077,491.08	5,736,334.85	6,531,481.61	8,094,056.69	9,317,781.00
843,535.52	992,574.09	1,345,704.31	1,295,572.99	1,613,844.24	1,664,161.30
486,141.80	607,296.29	718,162.30	814,219.37	902,028.75	1,044,434.85
357,393.72	385,367.80	627,542.01	481,353.62	711,815.49	619,726.45

*Debenture payments included in "Interest."

CONSOLIDATED

Year	1922	1923	1924
Number of municipalities included	214	224	241
EARNINGS	$ c.	$ c.	$ c.
Domestic service	3,786,608.23	5,166,452.24	5,993,231.07
Commercial light service	2,158,306.34	3,260,772.50	3,566,227.22
Commercial power service	4,383,912.97	5,927,666.37	6,222,865.88
Municipal power	973,263.38	1,161,598.60	1,352,966.47
Street lighting	1,160,446.81	1,269,604.48	1,356,668.97
Rural service	105,877.09	116,639.06	75,100.24
Miscellaneous	187,689.39	316,311.21	231,663.58
Total earnings	12,756,104.21	17,219,044.46	18,798,723.43
EXPENSES			
Power purchased	6,636,853.37	8,699,026.67	9,669,789.40
Substation operation	315,443.70	474,442.13	430,056.09
Substation maintenance	100,763.67	133,815.53	202,050.04
Distribution system, operation and maintenance	519,252.16	636,477.41	648,700.62
Line transformer maintenance	52,932.26	75,920.10	82,936.50
Meter maintenance	107,806.88	139,104.81	141,231.23
Consumers' premises expenses	143,388.88	218,682.02	237,316.20
Street lighting, operation and maintenance	297,363.86	299,579.08	269,973.30
Promotion of business	129,932.63	184,371.00	202,060.74
Billing and collecting	338,153.50	444,306.92	490,273.30
General office, salaries and expenses	605,852.50	937,463.47	889,907.66
Undistributed expense	385,895.03	359,206.91	494,078.50
Truck operation and maintenance	....	....	....
Interest	1,074,657.44	1,615,205.16	1,779,991.26
Sinking fund and principal payments on debentures	635,469.90	990,907.14	1,122,798.87
Total expenses	11,343,765.78	15,208,508.35	16,661,163.71
Surplus	1,412,338.43	2,010,536.11	2,137,559.72
Depreciation charge	715,814.24	916,782.75	973,649.62
Surplus less depreciation	696,524.19	1,093,753.36	1,163,910.10

OPERATING REPORT

1925	1926	1927	1928	1929	1930
242	248	251	255	259	267
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
6,439,159.86	7,372,602.62	8,189,866.89	8,925,050.56	9,873,681.57	10,542,903.89
3,866,292.79	4,187,899.19	4,626,815.51	5,182,723.32	5,697,766.06	5,961,383.23
6,568,854.77	6,789,217.54	7,342,173.20	8,298,669.44	9,376,158.74	9,340,653.28
1,923,093.09	1,922,512.34	1,913,502.88	1,921,300.97	2,086,444.24	2,111,482.38
1,415,382.22	1,457,686.21	1,489,242.37	1,534,476.98	1,598,262.43	1,674,528.03
37,975.18	37,810.73	13,765.72	48,451.90*	51,590.54*	28,954.60*
286,451.08	471,134.15	581,913.04	465,791.92	522,780.95	581,914.78
20,537,208.99	22,238,862.78	24,157,279.61	26,376,465.09	29,206,684.53	30,241,820.19
11,063,123.34	12,185,669.10	13,505,583.77	14,688,570.08	16,379,162.88	17,323,077.97
417,921.71	450,416.84	430,211.76	420,512.48	461,270.27	479,502.48
207,497.63	286,520.37	275,148.86	247,647.88	274,275.56	320,716.48
686,344.54	795,514.70	758,747.10	736,159.85	907,817.04	991,972.86
75,473.28	74,876.11	94,706.38	88,676.18	93,608.14	96,746.35
156,909.55	189,603.70	214,813.87	218,530.96	242,126.27	278,379.43
252,808.47	275,020.62	285,352.68	291,333.03	314,495.03	317,902.45
275,316.60	295,869.37	318,395.79	329,597.16	359,373.40	372,211.17
217,102.24	234,696.74	220,687.60	249,842.01	250,844.28	249,070.05
521,134.01	557,271.54	605,627.58	638,797.02	695,729.42	745,159.02
891,640.29	786,742.60	824,868.90	844,578.55	904,025.64	907,226.89
520,584.58	460,288.30	531,003.80	542,755.34	502,206.06	523,862.96
....	....	....	....	110,630.62	112,029.82
1,889,810.95	1,985,233.73	2,063,698.00	2,111,049.49	2,152,695.49	2,220,214.45
1,294,027.29	1,347,511.92	1,505,626.31	1,601,711.32	1,687,201.64	1,828,061.62
18,469,694.48	19,925,235.64	21,634,472.40	23,009,761.35	25,335,461.74	26,766,134.00
2,067,514.51	2,313,627.14	2,522,807.21	3,366,703.74	3,871,222.79	3,475,686.19
1,068,880.42	1,146,273.05	1,249,711.65	1,350,252.16	1,469,846.83	1,574,991.68
998,634.09	1,167,354.09	1,273,095.56	2,016,451.58	2,401,375.96	1,900,694.51

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*Profits from the sale of merchandise. Rural service now given in "Rural Power Districts." Consult Section IX.

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA
SYSTEM

Municipality Population	Acton 1,903	Agincourt P.V.	Ailsa Craig 500	Alvinston 612	Amherstburg 2,987
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	1,545.45			133.56	
Substation equipment	1,847.39				932.00
Distribution system—overhead	21,016.85	8,329.91	8,103.80	14,008.12	29,952.95
Distribution system—underground					
Line transformers	10,503.89	3,022.93	3,085.95	2,869.48	14,221.71
Meters	10,299.13	2,209.49	2,571.67	2,939.07	15,127.22
Street light equipment, regular	1,766.94	740.30	404.09	1,090.62	812.44
Street light equipment, ornamental					
Miscellaneous construction expense	2,927.50		503.36	758.68	1,510.30
Steam or hydraulic plant					
Old plant	3,481.50			773.85	
Total plant	53,388.65	14,302.63	14,668.87	22,573.38	62,556.62
Bank and cash balance	3,387.52	520.25	2,315.76	398.29	14,184.37
Securities and investments	1,500.00	1,000.00	3,000.00	2,000.00	
Accounts receivable	1,228.23	820.40	229.13	279.19	5,215.94
Inventories	987.65				
Sinking fund on local debentures					
Equity in H-E.P.C. systems	22,994.10	2,995.69	6,998.55	6,589.68	17,899.54
Other assets					
Total assets	83,486.15	19,638.97	27,212.31	31,840.54	99,856.47
Deficit				1,759.99	
Total	83,486.15	19,638.97	27,212.31	33,600.53	99,856.47
LIABILITIES					
Debenture balance	1,836.49	5,031.43	1,132.08	15,434.38	28,890.43
Accounts payable		35.48		300.00	2,073.33
Bank overdraft					
Other liabilties	332.53		65.00		1,767.76
Total liabilities	2,169.02	5,066.91	1,197.08	15,734.38	32,731.52
RESERVES					
For equity in H-E.P.C. systems	22,994.10	2,995.69	6,998.55	6,589.68	17,899.54
For depreciation	8,819.07	1,054.77	4,755.86	3,181.61	12,363.91
Other reserves					
Total reserves	31,813.17	4,050.46	11,754.41	9,771.29	30,263.45
SURPLUS					
Debentures paid	12,663.51	3,041.22	3,102.89	8,094.86	3,163.17
Local sinking fund					
Additional operating surplus	36,840.45	7,480.38	11,157.93		33,698.33
Total surplus	49,503.96	10,521.60	14,260.82	8,094.86	36,861.50
Total liabilities, reserves and surplus	83,486.15	19,638.97	27,212.31	33,600.53	99,856.47
Percentage of net debt to total assets	3.6	30.4	5.9	62.3	39.9

"A"

Hydro Municipalities as at December 31, 1930

Ancaster Twp. 4,124	Arkona 371	Aylmer 1,992	Ayr 781	Baden P.V.	Barton Twp. 1,597	Beachville P.V.	Belle River 768
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
....	....	9,019.23	125.00	660.64	....	176.13	....
14,284.51	9,143.97	20,495.19	12,081.40	6,821.18	6,589.71	12,873.76	14,617.71
8,445.64	1,513.44	10,175.31	3,726.67	3,880.22	2,253.39	2,356.94	3,356.15
3,737.83	1,675.32	9,031.42	3,462.32	2,724.30	2,417.89	2,988.30	3,129.34
1,171.89	671.60	1,495.51	575.65	447.45	214.50	410.35	924.29
276.93	242.32	1,179.20	941.79	....	20.00	652.04	962.78
....	1,030.30	6,719.17	4,002.53	....	....	....	....
27,916.80	14,276.95	58,115.03	24,915.36	14,533.79	11,495.49	19,457.52	22,990.27
1,855.43	456.64	6,599.03	785.94	2,990.47	41.04	5,904.23	2,662.75
....	....	12,000.00	....	....	....	7,000.00	3,000.00
1,072.18	417.73	2,204.91	179.70	324.85	976.94	1,286.40	1,272.69
....	2.12	47.93	....	....	....	....	....
5,154.75	1,578.90	15,580.60	5,508.77	14,516.75	1,729.16	17,589.93	3,285.53
....	....	....	540.82	....	....	....	....
35,999.16	16,732.34	94,547.50	31,930.59	32,365.86	14,242.63	51,238.08	33,211.24
....	1,096.39	....	....	....	593.96	....	....
35,999.16	17,828.73	94,547.50	31,930.59	32,365.86	14,836.59	51,238.08	33,211.24
8,746.28	11,339.17	23,853.35	7,948.94	2,701.72	8,192.82	2,924.97	6,560.47
1,295.22	350.00	....	26.14	....	520.06	....	....
119.70	2,000.00	20.00	....	....	100.36	....	....
10,161.20	13,689.17	23,873.35	7,975.08	2,701.72	8,813.24	2,924.97	6,560.47
5,154.75	1,578.90	15,580.60	5,508.77	14,516.75	1,729.16	17,589.93	3,285.53
4,728.82	787.00	8,621.11	2,674.52	1,372.66	1,879.05	4,598.39	2,910.93
....	....	....	....	....	....	....	5,000.00
9,883.57	2,365.90	24,201.71	8,183.29	15,889.41	3,608.21	22,188.32	11,196.46
2,043.30	1,773.66	14,848.57	9,554.44	2,298.28	2,415.14	2,428.03	1,939.53
13,911.09	....	31,623.87	6,217.78	11,476.45	....	23,696.76	13,514.78
15,954.39	1,773.66	46,472.44	15,772.22	13,774.73	2,415.14	26,124.79	15,454.31
35,999.16	17,828.73	94,547.50	31,930.59	32,365.86	14,836.59	51,238.08	33,211.24
32.9	90.3	30.2	30.2	15.1	70.4	8.7	21.9

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Blenheim	Blyth	Bolton	Bothwell	Brampton
Population	1,631	618	600	603	4,993
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings					5,081.32
Substation equipment	909.64				24,742.53
Distribution system—overhead	22,236.61	10,803.03	9,926.41	5,904.61	46,557.36
Distribution system—underground					
Line transformers	7,899.71	2,441.35	4,296.34	2,575.37	23,468.05
Meters	9,397.80	1,642.42	2,820.12	2,822.96	24,970.18
Street light equipment, regular	2,805.03	1,284.19	817.19	195.44	2,574.56
Street light equipment, ornamental	1,482.97			4,431.19	
Miscellaneous construction expense	1,586.67	254.58	1,043.38	528.56	18,014.58
Steam or hydraulic plant					
Old plant		2,332.68	1,554.60		675.00
Total plant	46,318.43	18,758.25	20,458.04	16,458.13	146,083.58
Bank and cash balance	25.00	1.58	453.58	2,240.74	50.00
Securities and investments			500.00	11,000.00	
Accounts receivable	919.55	1,708.97	451.47	259.49	16,559.86
Inventories					182.21
Sinking fund on local debentures					
Equity in H-E.P.C. systems	14,966.70	3,087.68	8,043.77	8,707.28	65,045.47
Other assets	1,272.05				
Total assets	63,501.73	23,556.48	29,906.86	38,665.64	227,921.12
Deficit					
Total	63,501.73	23,556.48	29,906.86	38,665.64	227,921.12
LIABILITIES					
Debenture balance	9,878.28	11,817.46	7,544.21	3,527.91	22,629.72
Accounts payable		68.93	422.40	1,147.07	96.22
Bank overdraft	145.41				1,046.93
Other liabilities	1,482.97	5.00			
Total liabilities	11,506.66	11,891.39	7,966.61	4,674.98	23,772.87
RESERVES					
For equity in H-E.P.C. systems	14,966.70	3,087.68	8,043.77	8,707.28	65,045.47
For depreciation	8,491.15	1,739.41	3,871.99	4,419.12	42,296.71
Other reserves					
Total reserves	23,457.85	4,827.09	11,915.76	13,126.40	107,342.18
SURPLUS					
Debentures paid	4,121.72	4,451.57	4,955.79	2,006.28	46,420.92
Local sinking fund					
Additional operating surplus	24,415.50	2,386.43	5,068.70	18,857.98	50,385.15
Total surplus	28,537.22	6,838.00	10,024.49	20,864.26	96,806.07
Total liabilities, reserves and surplus	63,501.73	23,556.48	29,906.86	38,665.64	227,921.12
Percentage of net debt to total assets	23.7	58.1	36.4	15.6	14.6

"A"—Continued

Hydro Municipalities as at December 31, 1930

Brantford 29,287	Brantford Twp. 7,053	Bridgeport P.V.	Brigden P.V.	Brussels 706	Burford P.V.	Burgessville, P.V.	Caledonia 1,475
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
79,899.07	....	....	101.03	....	202.00	....	....
164,429.80	1,192.71	....	....	....	....	....	....
232,873.91	49,486.95	8,942.22	6,943.41	13,371.74	8,631.66	3,335.78	15,180.37
6,000.00	....	....	....	....	....	....	....
118,090.21	15,460 67	3,332.50	1,837.10	2,395.35	2,353.44	1,207.84	5,275.06
109,326.86	11,082.52	2,015.50	2,260 90	3,470.93	3,180.86	934.25	5,194.99
22,919.41	3,827.71	1,523.23	337.31	1,568.00	425.14	200.94	1,400.83
38,797.27	....	....	....	....	....	....	....
32,270.27	2,864.21	563.56	858.11	1,537.56	644.50	457.22	594.81
....	....	....	....	....	....	....	....
....	....	....	1,381.00	2,827.50	....	....	....
804,606.80	83,914.77	16,377.01	13,718.86	25,171.08	15,437.60	6,136.03	27,646.06
1,255.55	10,197.71	1,272.76	874.63	371.88	2,965.20	2,621.55	136.44
....	1,255.69	....	....	....	1,000.00	....	2,000.00
27,193.70	389.75	273.99	700.10	561.06	951.51	84.05	626.39
1,130.12	10.15	....	....	....	....	....	....
163,014.09	2,433.00	....	....	....	....	....	....
331,278.60	9,134.42	1,153.64	5,001.96	4,491.88	5,412.70	2,208.55	8,403.54
....	....	....	....	....	....	....	....
1,328,478.86	107,335.49	19,077.40	20,295.55	30,595.90	25,767.01	11,050.18	38,812.43
....	....	....	....	....	....	....	....
1,328,478.86	107,335.49	19,077.40	20,295.55	30,595.90	25,767.01	11,050.18	38,812.43
425,250.00	32,568.87	11,914.39	1,671.93	16,021.08	1,422.68	1,284.31	2,461.76
1,554.97	3,144.34	354.37	471.00	100.00	....	305.15	....
....	....	....	....	....	....	....	....
49,870.08	1,488.45	....	....	....	....	....	....
476,675.05	37,201.66	12,268.76	2,142.93	16,121.08	1,422.68	1,589.46	2,461.76
331,278.60	9,134.42	1,153.64	5,001.96	4,491.88	5,412.70	2,208.55	8,403.54
171,315.34	17,490.18	3,505.92	2,297.39	2,643.68	3,428.41	1,662.83	3,502.79
1,000.00	....	....	....	....	....	....	....
503,593.94	26,624.60	4,659.56	7,299.35	7,135.56	8,841.11	3,871.38	11,906.33
104,750.00	24,556.79	453.64	6,328.07	4,978.92	7,577.32	2,215.69	2,162.24
163,014.09	2,433.00	....	....	....	....	....	....
80,445.78	16,519.44	1,695.44	4,525.20	2,360.34	7,925.90	3,373.65	22,282.10
348,209.87	43,509.23	2,149.08	10,853.27	7,339.26	15,503.22	5,589.34	24,444.34
1,328,478.86	107,335.49	19,077.40	20,295.55	30,595.90	25,767.01	11,050.18	38,812.43
37.6	36.3	68.4	14.0	61.8	7.0	18.0	8.1

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Campbellville, P.V.	Cayuga	Chatham	Chippawa	Clifford
Population		671	16,104	1,171	461
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	....	....	46,044.79	....	....
Substation equipment	....	....	101,695.86	....	....
Distribution system—overhead	2,954.27	15,498.45	154,382.82	17,923.35	6,723.91
Distribution system—underground	....	....	72,026.49	....	....
Line transformers	718.23	2,809.06	86,806.69	5,192.56	1,076.74
Meters	511.99	2,314.32	68,552.49	4,652.85	2,014.44
Street light equipment, regular	258.56	942.83	15,065.24	1,833.65	653.09
Street light equipment, ornamental	....	....	31,950.56	....	....
Miscellaneous construction expense	6.82	353.31	31,194.35	1,022.19	37.44
Steam or hydraulic plant	....	....	....	....	....
Old plant	....	....	42,760.91	....	....
Total plant	4,449.87	21,917.97	650,480.20	30,624.60	10,505.62
Bank and cash balance	528.08	367.21	50.00	682.71	1,172.28
Securities and investments	1,000.00	....	....	....	....
Accounts receivable	348.36	888.39	24,306.59	234.72	94.98
Inventories	....	231.13	4,958.57	....	....
Sinking fund on local debentures	....	....	....	....	....
Equity in H-E.P.C. systems	484.96	2,892.90	160,923.97	6,898.13	2,082.37
Other assets	....	....	....	50.31	....
Total assets	6,811.27	26,297.60	840,719.33	38,490.47	13,855.25
Deficit	....	203.87	....	....	....
Total	6,811.27	26,501.47	840,719.33	38,490.47	13,855.25
LIABILITIES					
Debenture balance	4,322.19	16,049.11	186,142.04	8,530.71	7,239.25
Accounts payable	164.54	917.57	4,617.06	89.76	....
Bank overdraft	....	....	57,716.35	....	....
Other liabilities	....	....	46,570.04	....	....
Total liabilities	4,486.73	16,966.68	295,045.49	8,620.47	7,239.25
RESERVES					
For equity in H-E.P.C. systems	484.96	2,892.90	160,923.97	6,898.13	2,082.37
For depreciation	508.00	2,691.00	93,128.18	5,162.85	991.73
Other reserves	....	....	502.72	....	....
Total reserves	992.96	5,583.90	254,554.87	12,060.98	3,074.10
SURPLUS					
Debentures paid	1,125.58	3,950.89	83,857.96	4,819.29	760.75
Local sinking fund	....	....	....	....	....
Additional operating surplus	206.00	....	207,261.01	12,989.73	2,781.15
Total surplus	1,331.58	3,950.89	291,118.97	17,809.02	3,541.90
Total liabilities, reserves and surplus	6,811.27	26,501.47	840,719.33	38,490.47	13,855.25
Percentage of net debt to total assets	71.0	72.5	43.4	27.3	61.5

"A"—Continued

Hydro Municipalities as at December 31, 1930

Clinton 1,937	Comber P.V.	Cottam P.V.	Courtright 394	Dashwood P.V.	Delaware P.V.	Dorchester P.V.	Drayton 508
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
7,979.41	....	....	....	....	....	....	....
7,544.43	....	....	....	....	....	....	....
21,892.23	6,463.60	8,854.99	6,515.06	3,301.44	3,629.97	8,009.67	9,197.42
....	....	....	....	....	....	....	....
7,121.85	3,222.00	1,538.31	1,225.40	1,593.58	766.83	3,286.91	2,640.13
8,908.28	2,189.92	1,803.64	874.17	1,340.00	841.69	2,324.67	3,156.59
1,217.29	384.93	359.43	425.08	342.52	140.78	459.14	673.50
....	....	....	....	....	....	....	....
4,119.34	957.54	206.27	558.67	291.87	203.81	328.41	388.37
....	....	....	....	....	....	....	....
10,658.09	....	....	....	....	....	....	....
69,440.92	13,217.99	12,762.64	9,598.38	6,869.41	5,583.08	14,408.80	16,056.01
2,722.26	3,783.62	1,233.57	....	1,542.00	1,256.33	112.93	704.07
....	....	....	....	....	2,500.00	2,000.00	6,000.00
3,089.70	130.15	298.28	339.48	543.39	171.95	808.89	249.49
1,506.50	34.88	....	....	....	....	....	....
20,403.87	....	....	....	....	....	....	....
18,757.65	8,370.76	941.80	2,001.97	3,541.74	1,080.89	2,767.65	4,605.73
....	....	....	....	....	....	....	....
115,920.90	25,537.40	15,236.29	11,939.83	12,496.54	10,592.25	20,098.27	27,615.30
....	....	....	....	....	....	....	....
115,920.90	25,537.40	15,236.29	11,939.83	12,496.54	10,592.25	20,098.27	27,615.30
44,500.00	2,980.88	7,879.38	5,189.89	2,447.78	2,575.47	2,903.64	7,231.05
972.49	....	10.01	841.82	3.42	364.61	....	50.00
....	....	....	223.58	....	....	....	....
....	....	85.00	....	....	....	....	....
45,472.49	2,980.88	7,974.39	6,255.29	2,451.20	2,940.08	2,903.64	7,281.05
18,757.65	8,370.76	941.80	2,001.97	3,541.74	1,080.89	2,767.65	4,605.73
16,233.60	3,918.81	1,497.55	481.15	1,388.51	851.64	621.97	3,724.56
....	....	....	....	....	....	....	....
34,991.25	12,289.57	2,439.35	2,483.12	4,930.25	1,932.53	3,389.62	8,330.29
....	4,719.12	1,120.84	2,948.46	952.22	1,424.53	1,396.36	2,268.95
20,403.87	....	....	....	....	....	....	....
15,053.29	5,547.83	3,701.71	252.96	4,162.87	4,295.11	12,408.65	9,735.01
35,457.16	10,266.95	4,822.55	3,201.42	5,115.09	5,719.64	13,805.01	12,003.96
115,920.90	25,537.40	15,236.29	11,939.83	12,496.54	10,592.25	20,098.27	27,615.30
32.7	17.4	55.8	62.9	27.4	30.9	16.8	31.6

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Dresden	Drumbo	Dublin	Dundas	Dunnville
Population	1,465	P.V.	P.V.	5,052	3,450
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	....	....	....	9,235.96	3,339.68
Substation equipment	523.00	....	....	13,396.22	27,301.25
Distribution system—overhead	15,846.13	4,318.07	5,787.61	47,966.05	33,312.65
Distribution system, underground	....	....	....	....	....
Line transformers	7,260.48	1,417.47	897.65	19,252.96	15,964.94
Meters	5,689.08	1,730.95	874.11	19,729.99	13,895.05
Street light equipment, regular	1,116.00	253.02	544.86	10,737.21	3,132.98
Street light equipment, ornamental	....	....	....	....	4,767.47
Miscellaneous construction expense	543.84	266.20	787.06	7,165.97	6,061.59
Steam or hydraulic plant	....	....	....	....	....
Old plant	4,815.01	....	....	1,867.38	10,717.62
Total plant	35,793.54	7,985.71	8,891.29	129,351.74	118,493.23
Bank and cash balance	25.77	1,019.09	113.40	3,181.93	261.82
Securities and investments	3,000.00	....	....	1,500.00	10,000.00
Accounts receivable	818.33	538.00	103.31	5,819.50	5,477.25
Inventories	410.81	91.41	....	537.23	348.35
Sinking fund on local debentures	....	....	....	....	....
Equity in H-E.P.C. systems	12,558.73	2,537.87	2,382.69	61,026.15	21,203.86
Other assets	....	....	....	107.99	....
Total assets	52,607.18	12,172.08	11,490.69	201,524.54	155,784.51
Deficit	....	....	462.67	....	....
Total	52,607.18	12,172.08	11,953.36	201,524.54	155,784.51
LIABILITIES					
Debenture balance	3,258.35	2,897.62	2,600.14	31,797.72	56,987.56
Accounts payable	97.34	235.61	1,148.81	3,761.54	10,425.23
Bank overdraft	....	....	....	....	....
Other liabilities	....	....	....	1,675.77	600.00
Total liabilities	3,355.69	3,133.23	3,748.95	37,235.03	68,012.79
RESERVES					
For equity in H-E.P.C. systems	12,558.73	2,537.87	2,382.69	61,026.15	21,203.86
For depreciation	5,163.56	2,372.63	2,221.86	32,221.71	21,751.39
Other reserves	....	....	....	....	....
Total reserves	17,722.29	4,910.50	4,604.55	93,247.86	42,955.25
SURPLUS					
Debentures paid	12,979.90	1,602.38	3,599.86	21,202.28	18,512.44
Local sinking fund	....	....	....	....	....
Additional operating surplus	18,549.30	2,525.97	....	49,839.37	26,304.03
Total surplus	31,529.20	4,128.35	3,599.86	71,041.65	44,816.47
Total liabilities, reserves and surplus	52,607.18	12,172.08	11,953.36	201,524.54	155,784.51
Percentage of net debt to total assets	8.4	32.5	41.2	26.5	50.5

"A"—Continued

Hydro Municipalities as at December 31, 1930

Dutton 805	East Windsor 15,105	Elmira 2,795	Elora 1,244	Embro 424	Erieau 210	Erie Beach 21	Essex 1,732
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
		6,135.70	1,494.54				
7,807.48	160,524.51	29,977.74	15,623.53	8,770.47	8,831.52	1,834.77	34,317.53
							442.55
3,459.80	70,222.28	14,595.27	7,301.95	2,847.45	1,280.72	613.17	12,928.39
3,259.83	60,508.38	12,593.32	5,680.92	1,901.58	1,909.23	625.68	9,827.15
577.88		1,467.33	945.48	475.30	240.10		1,340.06
	57,814.00						
338.94	3,439.78	4,920.64	1,445.50	69.45	379.90	375.03	2,731.40
		2,168.08	1,425.47	429.25			
15,443.93	352,508.95	71,858.08	33,917.39	14,493.50	12,641.47	3,448.65	61,587.08
		253.88	2,244.65	15.94		31.33	692.55
5,000.00			5,000.00				5,000.00
889.33	85,352.01	1,421.38	166.85	775.52	416.92	322.88	5,667.20
53.30		130.86	795.26				
7,804.07	85,588.91	34,758.51	16,421.55	4,755.62	1,623.79	439.41	10,307.75
29,190.63	523,449.87	108,422.71	58,545.70	20,040.58	14,682.18	4,242.27	83,254.58
29,190.63	523,449.87	108,422.71	58,545.70	20,040.58	14,682.18	4,242.27	83,254.58
5,723.25	117,807.51	16,893.86	5,839.88	4,812.67	5,460.92	2,907.61	20,360.42
	29,781.53	2,995.44	866.49	135.95	1,316.83		1,141.58
80.61					375.19		1,936.41
6.84	57,814.00	515.65	116.43				595.18
5,810.70	205,403.04	20,404.95	6,822.80	4,948.62	7,152.94	2,907.61	24,033.59
7,804.07	85,588.91	34,758.51	16,421.55	4,755.62	1,623.79	439.41	10,307.75
4,874.60	36,447.33	14,613.08	9,011.47	3,716.67	1,002.50	280.00	7,577.17
	750.00						
12,678.67	122,786.24	49,371.59	25,433.02	8,472.29	2,626.29	719.41	17,884.92
2,684.24	31,192.49	8,106.14	7,160.12	2,687.33	1,422.21	392.39	2,139.58
8,017.02	164,068.10	30,540.03	19,129.76	3,932.34	3,480.74	222.86	39,196.49
10,701.26	195,260.59	38,646.17	26,289.88	6,619.67	4,902.95	615.25	41,336.07
29,190.63	523,449.87	108,422.71	58,545.70	20,040.58	14,682.18	4,242.27	83,254.58
27.2	46.9	27.7	16.2	32.4	54.8	76.5	32.9

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Etobicoke Twp.	Exeter	Fergus	Fonthill	Forest
Population	14,212	1,615	2,286	763	1,415
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	23,873.05	3,281.59	....	....	6,292.40
Substation equipment	....	....	....	....	....
Distribution system, overhead	290,710.32	21,620.44	31,114.50	10,106.39	20,767.84
Distribution system, underground	....	....	....	....	....
Line transformers	66,597.43	9,314.57	14,882.12	4,408.80	8,687.85
Meters	57,597.43	7,594.61	10,833.18	4,175.91	8,774.78
Street light equipment, regular	12,784.47	932.04	1,876.77	925.60	2,369.94
Street light equipment, ornamental	2,689.44	....	....	....	....
Miscellaneous construction expense	7,844.51	2,543.18	1,561.69	3,684.64	1,501.66
Steam or hydraulic plant	....	....	....	....	....
Old plant	....	....	2,546.59	....	11,042.87
Total plant	462,096.65	45,286.43	62,814.85	23,301.34	59,437.34
Bank and cash balance	7,708.26	8,001.79	633.09	889.79	2,814.26
Securities and investments	....	3,000.00	....	....	5,500.00
Accounts receivable	17,537.74	2,645.31	1,573.60	711.12	3,215.67
Inventories	153.57	3,339.66	399.21	....	2,978.69
Sinking fund on local debentures	....	....	....	....	....
Equity in H-E.P.C. systems	56,972.51	16,339.86	18,472.03	1,471.27	10,978.74
Other assets	....	....	....	....	....
Total assets	544,468.73	78,613.05	83,892.78	26,373.52	84,924.70
Deficit	....	....	....	....	....
Total	544,468.73	78,613.05	83,892.78	26,373.52	84,924.70
LIABILITIES					
Debenture balance	183,794.62	10,957.54	26,497.48	19,810.57	13,689.92
Accounts payable	66,558.06	....	....	445.47	....
Bank overdraft	....	....	5,301.34	....	....
Other liabilities	8,969.59	....	10.00	243.31	53.50
Total liabilities	259,322.27	10,957.54	31,808.82	20,499.35	13,743.42
RESERVES					
For equity in H-E.P.C. systems	56,972.51	16,339.86	18,472.03	1,471.27	10,978.74
For depreciation	52,069.70	9,884.77	4,482.10	1,250.35	11,888.69
Other reserves	....	101.87	....	....	350.00
Total reserves	109,042.21	26,326.50	22,954.13	2,721.62	23,217.43
SURPLUS					
Debentures paid	57,205.38	9,042.51	15,502.52	2,689.43	20,710.08
Local sinking fund	....	....	....	....	....
Additional operating surplus	118,898.87	32,286.50	13,627.31	463.12	27,253.77
Total surplus	176,104.25	41,329.01	29,129.83	3,152.55	47,963.85
Total liabilities, reserves and surplus	544,468.73	78,613.05	83,892.78	26,373.52	84,924.70
Percentage of net debt to total assets	53.2	17.6	48.6	82.3	18.6

"A"—Continued

Hydro Municipalities as at December 31, 1930

Galt 13,236	George-town 1,992	Glencoe 759	Goderich 4,221	Granton P.V.	Guelph 19,857	Hagers-ville 1,246	Hamilton 134,566
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
199,351.47	12.00	...	12,957.48	...	13,380.18	...	957,948.05
173,378.04	...	...	34,402.48	...	126,039.22	864.37	671,342.99
220,838.69	27,646.52	20,660.69	59,933.91	4,150.68	171,535.71	18,719.63	934,498.99
...	...	...	...	...	...	...	517,399.44
56,467.93	16,552.07	6,522.45	19,593.04	1,533.55	78,504.34	9,408.02	525,903.67
69,485.54	12,380.27	4,119.08	16,296.57	1,456.26	85,859.59	7,526.79	507,688.87
14,238.76	1,362.22	1,714.63	4,825.17	163.37	38,027.59	958.69	160,994.93
58,775.54	...	...	...	...	883.19	...	...
24,427.06	3,037.27	3,577.97	6,074.38	113.08	16,229.42	1,551.68	194,436.42
...	...	...	...	...	...	...	...
...	2,209.80	...	14,622.15	...	...	...	30,049.20
816,963.03	63,200.15	36,594.82	168,705.18	7,416.94	530,459.24	39,029.18	4,500,262.56
175.00	2,754.25	314.63	3,143.13	2,035.19	9,046.94	7,733.09	674,401.60
...	9,638.19	...	500.00	2,000.00	...	7,000.00	...
56,059.78	1,532.60	1,777.47	5,683.87	113.43	47,238.30	3,362.98	302,983.85
15,146.20	628.73	...	2,225.28	...	35,846.05	41.00	80,079.21
160,925.31	...	...	...	...	36,750.38	...	514,388.66
227,733.82	38,894.89	7,076.39	50,600.45	3,469.55	263,987.99	34,726.60	1,333,362.13
1,042.94	...	...	...	...	...	...	14,334.22
1,278,046.08	116,648.81	45,763.31	230,857.91	15,035.11	923,328.90	91,892.85	7,419,812.23
...	...	...	...	...	...	...	...
1,278,046.08	116,648.81	45,763.31	230,857.91	15,035.11	923,328.90	91,892.85	7,419,812.23
424,698.60	12,862.73	11,353.36	56,468.67	2,469.61	65,579.16	4,235.45	3,674,571.94
22,675.95	983.78	...	5,273.91	637.55	19,850.54	...	239,680.34
54,118.47	...	...	...	...	...	...	...
...	...	...	1,343.10	...	2,361.57	...	128,145.34
501,493.02	13,846.51	11,353.36	63,085.68	3,107.16	87,791.27	4,235.45	4,042,397.62
227,733.82	38,894.89	7,076.39	50,600.45	3,469.55	263,987.99	34,726.60	1,333,362.13
189,566.78	16,330.51	4,449.81	43,984.52	1,494.61	49,530.98	5,742.45	624,423.01
584.29	...	...	...	...	236.00	...	42,549.15
417,884.89	55,225.40	11,526.20	94,584.97	4,964.16	313,754.97	40,469.05	2,000,334.29
93,303.35	7,137.27	8,759.52	39,619.38	1,030.39	79,420.83	3,764.55	544,453.18
160,925.31	...	...	...	...	36,750.38	...	514,388.66
104,439.51	40,439.63	14,124.23	33,567.88	5,933.40	405,611.45	43,423.80	318,238.48
358,668.17	47,576.90	22,883.75	73,187.26	6,963.79	521,782.66	47,188.35	1,377,080.32
1,278,046.08	116,648.81	45,763.31	230,857.91	15,035.11	923,328.90	91,892.85	7,419,812.23
38.3	17.8	29.3	35.0	26.9	8.2	7.4	63.3

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality	Harriston	Harrow	Hensall	Hespeler	Highgate
Population	1,274	P.V.	753	2,719	350
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings				4,448.18	
Substation equipment	600.00			31,700.81	
Distribution system, overhead	21,582.73	14,204.68	12,370.10	29,112.39	6,232.83
Distribution system, underground					
Line transformers	7,339.42	7,717.82	4,428.42	19,655.81	2,249.25
Meters	6,747.65	5,484.05	3,291.15	12,030.00	1,687.40
Street light equipment, regular	1,141.41	644.18	605.33	5,425.92	343.16
Street light equipment, ornamental					
Miscellaneous construction expense	1,356.76	95.42	576.95	623.93	551.98
Steam or hydraulic plant					
Old plant	1,001.43		400.00		
Total plant	39,769.40	28,146.15	21,671.95	102,997.04	11,064.62
Bank and cash balance	20.00	5,917.24	4,928.01	3,518.95	1,176.23
Securities and investments					2,353.04
Accounts receivable	591.14	2,216.56	1,238.95	5,832.96	201.41
Inventories			4.22	250.56	
Sinking fund on local debentures					
Equity in H-E.P.C. systems	13,437.77	6,258.50	5,671.22	35,959.49	4,395.36
Other assets					
Total assets	53,818.31	42,538.45	33,514.35	148,559.00	19,190.66
Deficit					
Total	53,818.31	42,538.45	33,514.35	148,559.00	19,190.66
LIABILITIES					
Debenture balance	13,934.65	9,724.65	8,385.45	42,991.31	3,522.60
Accounts payable	3,386.63	2,125.79	873.43	501.52	
Bank overdraft	2,815.62				
Other liabilities		185.00	37.50	15.20	
Total liabilities	20,136.90	12,035.44	9,296.38	43,508.03	3,522.60
RESERVES					
For equity in H-E.P.C. systems	13,437.77	6,258.50	5,671.22	35,959.49	4,395.36
For depreciation	3,095.28	1,691.92	4,031.73	9,393.50	2,795.73
Other reserves					
Total reserves	16,533.05	7,950.42	9,702.95	45,352.99	7,191.09
SURPLUS					
Debentures paid	11,883.38	2,275.35	3,614.55	34,579.20	1,477.40
Local sinking fund					
Additional operating surplus	5,264.98	20,277.24	10,900.47	25,118.78	6,999.57
Total surplus	17,148.36	22,552.59	14,515.02	59,697.98	8,476.97
Total liabilities, reserves and surplus	53,818.31	42,538.45	33,514.35	148,559.00	19,190.66
Percentage of net debt to total assets	49.9	33.2	33.4	38.6	23.8

"A"—Continued

Hydro Municipalities as at December 31, 1930

Humberstone 1,597	Ingersoll 5,050	Jarvis 471	Kingsville 2,223	Kitchener 28,282	Lambeth P.V.	La Salle 628	Leamington 5,269
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
....	15,064.45	....	7,774.09	52,191.26	....	....	13,666.90
....	25,374.39	....	....	213,980.95	....	....	7,085.62
25,702.65	51,027.08	8,866.18	29,183.92	295,506.58	6,454.46	18,460.56	46,699.40
....	....	....	....	34,669.75	....	....	6,464.83
8,318.36	25,090.10	2,526.96	12,143.99	158,395.98	1,695.33	6,716.60	20,592.23
7,722.87	24,271.02	2,055.87	12,241.29	161,948.01	1,869.38	4,032.82	21,666.68
861.20	2,919.52	846.99	1,384.89	57,801.72	269.16	946.49	1,380.13
....	4,597.59	....	19,200.00	....	....	....	15,178.49
3,007.22	11,959.13	536.27	306.97	16,319.19	300.71	1,486.19	1,930.19
....	....	....	....	....	....	....	....
....	19,597.39	....	....	52,398.91	....	300.00	....
45,612.30	179,900.67	14,832.27	82,235.15	1,043,212.35	10,589.04	31,942.66	134,664.47
5,785.25	10,723.39	2,793.29	2,338.17	9,535.59	1,768.55	3,557.71	17,990.68
....	12,883.90	....	10,000.00	15,000.00	....	....	2,000.00
336.11	1,040.02	685.43	4,693.69	66,954.98	690.14	1,927.29	10,109.24
....	2,863.83	46.75	....	15,118.71	....	....	....
....	54,436.40	....	....	....	....	....	....
5,841.61	75,176.79	4,985.78	14,226.18	497,597.47	3,636.66	3,855.35	23,093.04
....	....	....	....	86,939.84	....	....	....
57,575.27	337,025.00	23,343.52	113,493.19	1,734,358.94	16,684.39	41,283.01	187,857.43
....	....	....	....	....	....	....	....
57,575.27	337,025.00	23,343.52	113,493.19	1,734,358.94	16,684.39	41,283.01	187,857.43
23,600.00	79,800.00	8,010.59	30,544.29	259,303.75	2,822.31	13,124.75	38,898.20
489.88	615.72	878.63	3,581.51	46,061.64	1,132.06	1,446.52	6,563.23
....	....	....	....	....	....	....	....
810.29	4,597.59	....	20,381.53	86,939.84	....	494.86	17,208.77
24,900.17	85,013.31	8,889.22	54,507.33	392,305.23	3,954.37	15,066.13	62,670.20
5,841.61	75,176.79	4,985.78	14,226.18	497,597.47	3,636.66	3,855.35	23,093.04
2,783.45	17,289.40	1,561.02	11,774.63	192,953.67	1,948.96	2,984.44	13,922.99
....	....	....	....	16,069.08	....	....	....
8,625.06	92,466.19	6,546.80	26,000.81	706,620.22	5,585.62	6,839.79	37,016.03
8,400.00	....	2,489.41	2,955.71	252,846.25	1,177.69	2,375.25	9,101.80
....	54,436.40	....	....	....	....	....	....
15,650.04	105,109.10	5,418.09	30,029.34	382,587.24	5,966.71	17,001.84	79,069.40
24,050.04	159,545.50	7,907.50	32,985.05	635,433.49	7,144.40	19,377.09	88,171.20
57,575.27	337,025.00	23,343.52	113,493.19	1,734,358.94	16,684.39	41,283.01	187,857.43
48.1	14.7	48.4	55.0	31.7	30.3	40.3	38.0

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality	Listowel	London	London Twp.	Lucan	Lynden
Population	2,545	68,404	7,821	573	P.V.
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	1,416.07	410,000.14			241.18
Substation equipment		929,144.77			
Distribution system, overhead	35,568.46	721,520.79	15,629.49	10,404.61	4,750.62
Distribution system, underground	1,892.35	198,040.91			
Line transformers	16,466.40	221,691.61	4,986.28	3,963.49	2,149.21
Meters	15,194.94	297,661.75	3,418.34	3,040.05	1,479.81
Street light equipment, regular	1,754.13	53,855.12	743.58	410.87	256.56
Street light equipment, ornamental	1,348.66	11,895.58			
Miscellaneous construction expense	2,698.41	*125,240.60	478.71	484.77	193.57
Steam or hydraulic plant					
Old plant	4,745.30		1,733.80	2,860.45	
Total plant	81,084.72	2,969,051.27	26,990.20	21,164.24	9,070.95
Bank and cash balance	2,811.69	8,846.31	4,864.54	1,060.61	618.50
Securities and investments				5,000.00	
Accounts receivable	3,317.38	298,564.38	1,227.48	672.75	255.75
Inventories		88,306.14			
Sinking fund on local debentures		305,287.28			
Equity in H-E.P.C. systems	27,700.72	897,425.49	4,159.76	8,572.43	6,647.57
Other assets					
Total assets	114,914.51	4,567,480.87	37,241.98	36,470.03	16,592.77
Deficit					
Total	114,914.51	4,567,480.87	37,241.98	36,470.03	16,592.77
LIABILITIES					
Debenture balance	12,581.62	1,120,600.97	13,746.97	5,064.07	3,104.77
Accounts payable		150,938.14	1,775.05	95.00	154.99
Bank overdraft		48,963.01			
Other liabilities	1,448.66	1,089.83	5.00		
Total liabilities	14,030.28	1,321,591.95	15,527.02	5,159.07	3,259.76
RESERVES					
For equity in H-E.P.C. systems	27,700.72	897,425.49	4,159.76	8,572.43	6,647.57
For depreciation	20,342.02	674,731.14	2,430.74	5,345.45	1,845.79
Other reserves		57,268.71			
Total reserves	48,042.74	1,629,425.34	6,590.50	13,917.88	8,493.36
SURPLUS					
Debentures paid	30,608.27	461,299.03	5,253.03	6,149.55	1,390.23
Local sinking fund		305,287.28			
Additional operating surplus	22,233.22	849,877.27	9,871.43	11,243.53	3,449.42
Total surplus	52,841.49	1,616,463.58	15,124.46	17,393.08	4,839.65
Total liabilities, reserves and surplus	114,914.51	4,567,480.87	37,241.98	36,470.03	16,592.77
Percentage of net debt to total assets	16.0	30.2	46.9	18.5	32.8

*Includes uncompleted work orders.

"A"—Continued

Hydro Municipalities as at December 31, 1930

Markham 969	Merlin P.V.	Merritton 2,575	Milton 1,775	Milverton 1,122	Mimico 5,762	Mitchell 1,645	Moorefield P.V.
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
....	....	350.00	....	237.20	13,628.60	12,649.72	....
....	....	32,689.04	11,868.94	....	38,196.44	21,287.83	....
13,603.04	7,977.07	23,659.85	20,273.46	11,181.19	67,288.66	27,879.71	2,991.03
....	....	....	....	....	....	....	....
7,090.76	3,274.17	5,530.88	12,975.97	7,565.80	24,063.70	7,857.41	990.72
4,969.80	2,235.70	8,991.07	12,376.45	4,818.94	25,079.76	11,219.71	1,148.22
619.29	555.64	1,924.53	1,011.17	669.56	7,109.43	2,469.33	295.88
....	....	....	....	....	....	....	....
1,318.86	455.36	2,467.74	4,358.47	944.83	4,834.07	1,031.13	348.35
....	....	....	....	....	....	....	....
....	241.85	....	4,096.23	....	....	1,500.00	....
27,601.75	14,739.79	75,613.11	66,960.69	25,417.52	180,200.66	85,894.84	5,774.20
....	1,965.89	9,179.35	2,360.28	1,393.79	831.10	5,202.43	2,056.13
2,567.97	6,000.00	....	....	3,000.00	....	....	....
1,598.88	1,938.59	3,826.92	14,541.71	157.18	4,875.03	6,711.82	173.62
....	....	....	7,439.34	....	....	1,641.34	5.90
....	....	....	....	....	....	....	....
5,872.30	5,117.69	26,689.32	48,961.49	21,205.66	49,976.26	18,057.57	2,476.00
....	....	....	238.99	....	....	....	....
37,640.90	29,761.96	115,308.70	140,502.50	51,174.15	235,883.05	117,508.00	10,485.85
....	....	....	....	....	....	....	....
37,640.90	29,761.96	115,308.70	140,502.50	51,174.15	235,883.05	117,508.00	10,485.85
2,299.13	9,638.46	24,343.87	10,962.04	3,393.58	77,532.63	....	2,165.15
773.34	1,176.99	1,655.06	....	2,040.55	5,086.61	1,335.16	....
395.15	....	....	....	....	1,504.41	....	....
5.00	....	....	17.50	....	3,485.00	....	....
3,472.62	10,815.45	25,998.93	10,979.54	5,434.13	87,608.65	1,335.16	2,165.15
5,872.30	5,117.69	26,689.32	48,961.49	21,205.66	49,976.26	18,057.57	2,476.00
3,922.29	1,315.70	8,537.23	14,223.13	3,602.76	33,771.97	25,378.85	1,564.84
....	....	....	192.73	....	....	....	....
9,794.59	6,433.39	35,226.55	63,377.35	24,808.42	83,748.23	43,436.42	4,040.84
9,074.50	3,725.75	7,842.34	21,750.94	6,106.42	29,467.37	22,295.22	2,334.85
....	....	....	....	....	....	....	....
15,299.19	8,787.37	46,240.88	44,394.67	14,825.18	35,058.80	50,441.20	1,945.01
24,373.69	12,513.12	54,083.22	66,145.61	20,931.60	64,526.17	72,736.42	4,279.86
37,640.90	29,761.96	115,308.70	140.502,50	51,174.15	235,883.05	117,508.00	10,485.85
10.9	43.9	29.3	12.0	18.1	47.1	1.3	27.0

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Mount Brydges	Newbury	New Hamburg	New Toronto	Niagara Falls
Population	P.V.	298	1,454	5,622	18,403
Assets	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings			2,513.19	43,130.88	129,550.98
Substation equipment			1,167.55		197,478.00
Distribution system, overhead	6,090.18	6,337.94	22,766.02	76,635.52	184,555.09
Distribution system, underground					
Line transformers	1,709.69	1,767.86	6,831.27	23,940.28	158,698.50
Meters	2,112.88	1,101.87	8,405.97	25,144.88	116,114.21
Street light equipment, regular	611.96	817.42	1,892.18	9,284.48	24,214.98
Street light equipment, ornamental					92,844.32
Miscellaneous construction expense	152.82	485.13	1,550.78	5,664.48	13,058.25
Steam or hydraulic plant					
Old plant		348.22	5,242.56		21,931.54
Total plant	10,677.53	10,858.44	50,369.52	183,800.52	938,445.87
Bank and cash balance	3,049.96	858.34	25.00	6,128.84	52,401.49
Securities and investments	2,000.00				
Accounts receivable	1,134.84	36.47	1,957.02	15,374.71	2,449.07
Inventories		6.52	1,053.23		151.89
Sinking fund on local debentures					
Equity in H-E.P.C. systems	2,611.95	1,614.49	21,205.02	163,793.80	226,811.90
Other assets				3,741.22	3,165.41
Total assets	19,474.28	13,374.26	74,609.79	372,839.09	1,223,425.63
Deficit					
Total	19,474.28	13,374.26	74,609.79	372,839.09	1,223,425.63
Liabilities					
Debenture balance	2,784.46	5,900.00	9,041.63	4,888.52	421,031.83
Accounts payable	282.20	100.79		11,909.43	23,038.44
Bank overdraft			1,411.90		
Other liabilities			76.50	3,741.22	14,147.36
Total liabilities	3,066.66	6,000.79	10,530.03	20,539.17	458,217.63
Reserves					
For equity in H-E.P.C. systems	2,611.95	1,614.49	21,205.02	163,793.80	226,811.90
For depreciation	1,394.44	1,574.23	9,704.26	29,656.31	105,271.27
Other reserves			192.35		5,070.58
Total reserves	4,006.39	3,188.72	31,101.63	193,450.11	337,153.75
Surplus					
Debentures paid	1,435.54	3,854.39	8,687.45	3,111.48	269,211.17
Local sinking fund					
Additional operating surplus	10,965.69	330.36	24,290.68	155,738.33	158,843.08
Total surplus	12,401.23	4,184.75	32,978.13	158,849.81	428,054.25
Total liabilities, reserves and surplus	19,474.28	13,374.26	74,609.79	372,839.09	1,223,425.63
Percentage of net debt to total assets	18.2	51.0	19.7	9.8	46.1

"A"—Continued

Hydro Municipalities as at December 31, 1930

Niagara on-the-Lake 1,547	Norwich 1,213	Oil Springs 466	Otterville P.V.	Palmerston 1,792	Paris 4,156	Parkhill 959	Petrolia 2,671
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
2,307.35	4,157.99	1,191.19	....	....	8,133.56	....	900 00
16,048.36	....	....	....	691.88	27,914.17	....	2,403.55
23,994.42	9,719.45	12,180.29	5,335.64	26,750.17	49,843.72	15,811.28	40,123.53
....	....	....	....	....	....	....	....
5,605.18	5,386.80	5,256.88	2,670.00	8,817.63	18,687.97	4,357.17	25,140.77
6,373.64	6,509.73	3,368.22	2,215.91	8,252.53	18,183.57	3,899.47	14,742.00
1,155.64	1,132.27	305.72	1,195.04	2,124.07	3,843.10	898.23	985.28
....	3,553.37	....	....	....	9,636.85	....	3,864.07
1,521.33	1,964.65	3,013.34	142.00	1,840.01	617.26	1,464.19	6,728.98
....	....	....	....	....	....	....	....
....	3,509.82	....	....	4,018.71	16,684.76	....	3,389.94
57,005.92	35,934.08	25,315.64	11,558.59	52,495.00	153,544.96	26,430.34	98,278.12
50.00	4,566.95	1,943.23	5,280.28	588.90	5,809.12	712.48	1,596.51
....	3,000.00	....	....	....	6,000.00	....	8,400.00
2,992.00	1,206.86	1,120.50	784.95	601.53	1,050.87	909.24	4,678.11
1,563.21	1,270.86	75.15	....	148.46	....	....	1,681.54
....	....	....	....	....	21,737.46	....	....
10,873.65	15,893.48	10,991.14	3,168.77	16,584.84	47,613.47	6,853.17	41,907.14
27.65	....	....	....	....	....	....	....
72,512.43	61,872.23	39,445.66	20,792.59	70,418.73	235,755.88	34,905.23	156,541.42
....	....	....	....	....	....	....	....
72,512.43	61,872.23	39,445.66	20,792.59	70,418.73	235,755.88	34,905.23	156,541.42
24,057.25	7,641.51	8,141.90	1,652.65	6,602.54	36,443.67	8,870.89	30,602.98
2,951.56	63.84	1,000.94	392.33	3,113.26	1,562.09	800.31	2,650.54
616.95	....	....	....	....	....	....	....
....	....	....	....	25.00	....	172.79	237.00
27,625.76	7,705.35	9,142.84	2,044.98	9,740.80	38,005.76	9,843.99	33,490.52
10,873.65	15,893.48	10,991.14	3,168.77	16,584.84	47,613.47	6,853.17	41,907.14
4,770.92	3,260.16	4,422.26	2,832.07	6,689.48	45,948.35	3,262.32	19,880.25
....	....	....	....	709.87	....	....	601.35
15,644.57	19,153.64	15,413.40	6,000.84	23,984.19	93,561.82	10,115.49	62,388.74
12,444.17	6,114.49	8,579.41	2,847.35	20,397.46	55,556.33	5,759.13	19,397.02
....	....	....	....	....	21,737.46	....	....
16,797.93	28,898.75	6,310.01	9,899.42	16,296.28	26,894.51	9,186.62	41,265.14
29,242.10	35,013.24	14,889.42	12,746.77	36,693.74	104,188.30	14,945.75	60,662.16
72,512.43	61,872.23	39,445.66	20,792.59	70,418.73	235,755.88	34,905.23	156,541.42
44.8	16.8	32.1	11.6	18.1	9.8	35.1	29.2

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality Population	Plattsville P.V.	Point Edward 1,378	Port Colborne 5,461	Port Credit 1,400	Port Dalhousie 1,656
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	....	....	22,561.01	675.00	....
Substation equipment	....	....	....	....	....
Distribution system, overhead	3,639.94	19,394.61	80,560.68	22,754.77	16,534.80
Distribution system, underground	....	....	....	....	....
Line transformers	1,252.37	5,773.49	22,740.96	7,951.50	7,674.63
Meters	1,826.73	4,774.10	20,648.01	7,940.12	9,082.33
Street light equipment, regular	147.15	2,467.42	4,495.45	4,898.26	1,041.19
Street light equipment, ornamental	....	....	....	....	....
Miscellaneous construction expense	535.92	503.14	6,999.33	799.11	2,174.38
Steam or hydraulic plant	....	....	....	....	....
Old plant	....	....	9,929.60	....	6,018.38
Total plant	7,402.11	32,912.76	167,935.04	45,018.76	42,525.71
Bank and cash balance	25.88	625.21	11,279.24	3,347.81	1,222.48
Securities and investments	....	13,000.00	....	....	3,000.00
Accounts receivable	272.00	2,316.09	7,156.61	2,755.34	3,637.72
Inventories	....	....	2,701.66	....	....
Sinking fund on local debentures	....	....	....	....	1,917.83
Equity in H-E.P.C. systems	3,719.04	17,362.57	32,083.67	12,791.91	10,743.37
Other assets	....	....	20.00	200.61	....
Total assets	11,419.03	66,216.63	221,176.22	64,114.43	63,047.11
Deficit	....	....	....	....	....
Total	11,419.03	66,216.63	221,176.22	64,114.43	63,047.11
LIABILITIES					
Debenture balance	3,372.28	10,674.72	112,681.33	9,952.74	12,997.32
Accounts payable	89.17	3,417.95	3,973.93	969.35	....
Bank overdraft	....	....	....	....	....
Other liabilities	....	....	1,385.00	195.00	....
Total liabilities	3,461.45	14,092.67	118,040.26	11,117.09	12,997.32
RESERVES					
For equity in H-E.P.C. systems	3,719.04	17,362.57	32,083.67	12,791.91	10,743.37
For depreciation	2,136.83	7,050.22	19,356.31	10,600.92	3,839.03
Other reserves	....	....	....	....	....
Total reserves	5,855.87	24,412.79	51,439.98	23,392.83	14,582.40
SURPLUS					
Debentures paid	1,864.72	6,325.28	33,318.67	4,547.26	9,502.68
Local sinking fund	....	....	....	....	1,917.83
Additional operating surplus	236.99	21,385.89	18,377.31	25,057.25	24,046.88
Total surplus	2,101.71	27,711.17	51,695.98	29,604.51	35,467.39
Total liabilities, reserves and surplus	11,419.03	66,216.63	221,176.22	64,114.43	63,047.11
Percentage of net debt to total assets	45.0	28.8	62.4	21.7	22.0

"A"—Continued

Hydro Municipalities as at December 31, 1930

Port Dover 1,628	Port Rowan 681	Port Stanley 583	Preston 5,884	Princeton P.V.	Queenston P.V.	Richmond Hill 1,170	Ridgetown 1,983
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
248.75	....	1,512.25	....	....	....	....	....
....	....	....	50,602.15	....	....	600.00	1,024.24
29,132.03	9,383.74	19,338.31	89,463.20	3,585.93	7,110.02	9,910.39	21,197.57
....	....	....	....	....	....	....	....
10,234.36	1,676.62	8,816.36	48,422.91	2,372.73	1,717.75	6,877.21	9,852.66
6,199.37	1,620.87	7,935.29	39,305.12	1,207.40	1,536.99	4,424.77	9,089.11
2,264.42	888.04	1,377.21	5,380.57	176.10	416.29	1,322.17	3,484.69
....	....	....	....	....	....	....	1,431.73
2,635.95	681.53	6,114.19	7,136.21	64.35	1,948.71	27.23	1,624.36
....	....	....	....	....	....	....	....
....	....	577.51	32,126.75	....	....	....	5,088.46
50,714.88	14,250.80	45,671.12	272,436.91	7,406.51	12,729.76	23,161.77	52,792.82
10.00	23.54	977.62	187.62	1,567.97	129.34	762.44	3,826.61
....	....	3,000.00	....	....	....	....	8,000.00
4,423.03	....	735.25	20,962.61	284.00	133.90	1,366.49	1,744.41
....	....	....	206.43	34.40	....	50.00	1,146.67
....	....	....	....	....	....	....	....
7,928.43	1,887.98	15,838.76	114,313.70	2,685.79	2,607.63	4,578.51	16,278.51
....	....	....	....	....	....	....	....
63,076.34	16,162.32	66,222.75	408,107.27	11,978.67	15,600.63	29,919.21	83,789.02
....	6,015.79	....	....	....	....	....	....
63,076.34	22,178.11	66,222.75	408,107.27	11,978.67	15,600.63	29,919.21	83,789.02
16,441.32	10,048.01	9,754.71	68,172.93	2,285.94	6,955.44	6,043.27	7,409.13
5,880.87	8,464.13	....	9,283.10	257.63	368.30	103.07	....
2,261.89	....	....	1,725.69	....	....	....	....
290.00	....	393.93	15.00	....	....	....	1,431.73
24,874.08	18,512.14	10,148.64	79,196.72	2,543.57	7,323.74	6,146.34	8,840.86
7,928.43	1,887.98	15,838.76	114,313.70	2,685.79	2,607.63	4,578.51	16,278.51
4,451.31	826.00	7,518.29	73,076.22	1,657.84	1,639.45	503.00	9,288.72
121.00	....	....	....	....	....	....	....
12,500.74	2,713.98	23,357.05	187,389.92	4,343.63	4,247.08	5,081.51	25,567.23
12,558.68	951.99	9,195.29	84,627.07	1,264.06	2,544.56	6,156.73	12,046.86
....	....	....	....	....	....	....	....
13,142.84	....	23,521.77	56,893.56	3,827.41	1,485.25	12,534.63	37,334.07
25,701.52	951.99	32,717.06	141,520.63	5,091.47	4,029.81	18,691.36	49,380.93
63,076.34	22,178.11	66,222.75	408,107.27	11,978.67	15,600.63	29,919.21	83,789.02
45.1	129.7	20.1	27.0	27.4	56.4	24.3	13.1

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality	Riverside	Rockwood	Rodney	St. Catharines	St. Clair Beach
Population	4,603	P.V.	752	24,094	107
Assets	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings		79.00		47,128.31	
Substation equipment				114,486.69	
Distribution system, overhead	89,085.44	7,229.78	9,384.28	191,695.51	7,642.92
Distribution system, underground					
Line transformers	29,986.33	2,481.27	2,301.61	121,937.58	2,381.83
Meters	22,699.98	2,525.84	3,375.92	79,879.64	1,409.52
Street light equipment, regular		544.02	586.17	18,014.10	
Street light equipment, ornamental	17,030.71			27,448.87	
Miscellaneous construction expense	4,571.45	401.71	792.65	41,453.52	149.27
Steam or hydraulic plant					
Old plant			700.00	8,104.00	
Total plant	163,373.91	13,261.62	17,140.63	650,148.22	11,583.54
Bank and cash balance		23.00	703.72	1,368.40	
Securities and investments			6,000.00	11,969.06	
Accounts receivable	15,662.16	256.75	312.79	26,943.20	3,004.79
Inventories		160.87		771.84	
Sinking fund on local debentures				59,033.63	
Equity in H-E.P.C. systems	26,385.76	4,502.07	4,592.90	198,930.73	2,309.34
Other assets					
Total assets	205,421.83	18,204.31	28,750.04	949,165.08	16,897.67
Deficit					
Total	205,421.83	18,204.31	28,750.04	949,165.08	16,897.67
Liabilities					
Debenture balance	64,546.24		6,118.89	204,123.56	4,600.85
Accounts payable	4,025.00	2,103.37		80,305.66	203.61
Bank overdraft		118.35			
Other liabilities	17,030.71	23.00	15.00	27,448.87	
Total liabilities	85,601.95	2,244.72	6,133.89	311,878.09	4,804.46
Reserves					
For equity in H-E.P.C. systems	26,385.76	4,502.07	4,592.90	198,930.73	2,309.34
For depreciation	17,682.93	3,506.13	3,034.53	116,319.85	1,541.32
Other reserves	250.00			11,322.14	
Total reserves	44,318.69	8,008.20	7,627.43	326,572.72	3,850.66
Surplus					
Debentures paid	17,953.76	2,000.00	2,381.11	62,899.35	1,740.60
Local sinking fund				59,033.63	
Additional operating surplus	57,547.43	5,951.39	12,607.61	188,781.29	6,501.95
Total surplus	75,501.19	7,951.39	14,988.72	310,714.27	8,242.55
Total liabilities, reserves and surplus	205,421.83	18,204.31	28,750.04	949,165.08	16,897.67
Percentage of net debt to total assets	47.8	16.4	25.4	36.6	32.9

"A"—Continued

Hydro Municipalities as at December 31, 1930

St. George P.V.	St. Jacobs P.V.	St. Marys 4,072	St. Thomas 16,567	Sandwich 10,655	Sarnia 16,763	Scarboro' Twp. 17,105	Seaforth 1,702
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
....	....	3,000.00	72,852.61	525.70	101,930.83	16,585.49	1,251.57
....	....	24,187.39	105,844.97	3,363.18	188,350.33	301.95	5,999.16
5,889.33	6,293.16	47,879.73	104,214.30	105,437.18	199,427.67	249,529.53	26,651.47
....	....	....	29,508.48	....	....	....	....
2,504.42	2.515.13	17,763.53	53,019.90	45,041.61	78,791.60	52,496.22	7,779.72
2,707.47	2,482.71	20,863.85	65,381.66	49,731.01	70,172.15	56,600.07	8,096.70
230.27	390.26	3,466.96	16,047.06	10,118.50	24,140.23	19,463.13	1,414.55
....	....	....	7,538.63	51,239.13	7,482.11	....	....
374.18	460.55	4,346.61	12,657.61	8,868.11	25,630.82	6,723.22	413.33
....	....	....	....	....	....	....	....
....	....	20,696.85	....	4,148.96	55,495.72	....	....
11,705.67	12,141.81	142,204.92	467,065.22	278,473.38	751,421.46	401,699.61	51,606.50
622.25	795.61	25.00	500.00	12,939.26	....	6,010.33	....
2,000.00	3,000.00	....	53,206.81	33,569.55	....	....	13,100.00
653.45	713.72	3,977.81	25,504.03	5,185.95	41,597.95	17,648.93	5,932.02
82.90	33.28	3,789.44	....	313.15	5,315.98	....	3,479.32
....	....	15,475.35	....	....	....	....	12,334.37
5,334.45	5,456.48	55,377.45	188,433.79	81,184.18	222,267.76	49,453.83	28,597.32
....	102.98	....	....	....	....	....	....
20,398.72	22,243.88	220,849.97	734,709.85	411,665.47	1,020,603.15	474,812.70	115,049.53
....	....	....	....	....	....	....	....
20,398.72	22,243.88	220,849.97	734,709.85	411,665.47	1,020,603.15	474,812.70	115,049.53
3,958.90	2,852.98	34,757.06	42,585.45	116,165.30	187,392.16	231,398.14	25,000.00
....	258.38	9,317.50	....	204.28	....	461.67	.10
....	....	939.42	5,801.92	....	23,446.23	1,275.15	225.57
45.60	102.98	....	6,814.24	62,541.86	12,455.17	19,936.49	....
4,004.50	3,214.34	45,013.98	55,201.61	178,911.44	223,293.56	253,071.45	25,225.67
5,334.45	5,456.48	55,377.45	188,433.79	81,184.18	222,267.76	49,453.83	28,597.32
1,835.42	2,079.52	39,275.61	77,154.35	26,694.79	88,815.66	41,128.21	15,072.52
....	....	209.05	469.95	....	454.39	....	....
7,169.87	7,536.00	94,862.11	266,058.09	107,878.97	311,537.81	90,582.04	43,669.84
2,041.10	3,147.02	54,489.96	96,358.62	29,407.73	150,607.84	59,170.13	....
....	....	15,475.35	....	....	....	....	12,334.37
7,183.25	8,346.52	11,008.57	317,091.53	95,467.33	335,163.94	71,989.08	33,819.65
9.224.35	11,493.54	80,973.88	413,450.15	124,875.06	485,771.78	131,159.21	46,154.02
20,398.72	22,243.88	220,849.97	734,709.85	411,665.47	1,020,603.15	474,812.70	115,049.53
26.6	19.1	19.7	10.1	54.1	28.0	59.5	17.4

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality	Simcoe	Springfield	Stamford Twp.	Stouffville	Stratford
Population	4,675	393	6,790	1,053	18,671
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	7,978.20		7,196.71		135,191.94
Substation equipment	22,906.67		37,384.60		136,903.19
Distribution system, overhead	43,681.77	7,826.80	113,981.74	11,133.01	152,125.27
Distribution system, underground					
Line transformers	22,303.37	2,169.19	41,038.63	3,519.52	90,633.23
Meters	19,394.00	1,888.28	27,568.85	3,563.82	84,070.23
Street light equipment, regular	5,768.50	388.68	8,383.23	1,405.43	5,305.52
Street light equipment, ornamental	2,527.16				15,576.20
Miscellaneous construction expense	6,501.75	691.36	10,348.90	381.93	17,684.08
Steam or hydraulic plant					
Old plant	927.92		13,743.66	3,866.37	16,150.00
Total plant	131,989.34	12,964.31	259,646.32	23,870.08	653,639.66
Bank and cash balance	25.00	733.49	8,951.48	3,770.85	2,440.86
Securities and investments		5,500.00		5,000.00	26,800.00
Accounts receivable	72.80	35.59	11,953.50	1,161.21	58,572.67
Inventories	459.31	15.91	3,968.08		10,452.42
Sinking fund on local debentures					158,940.77
Equity in H-E.P.C. systems	30,829.30	3,740.86	31,012.66	4,785.73	240,367.83
Other assets			1,072.47		
Total assets	163,375.75	22,990.16	316,604.51	38,587.87	1,151,214.21
Deficit					
Total	163,375.75	22,990.16	316,604.51	38,587.87	1,151,214.21
LIABILITIES					
Debenture balance	51,005.55	4,091.09	151,088.84	10,934.43	412,000.00
Accounts payable	13,292.54		20,206.55	59.06	
Bank overdraft	5,831.44				38,218.53
Other liabilities	3,525.00	100.00	3,157.53		
Total liabilities	73,654.53	4,191.09	174,452.92	10,993.49	450,218.53
RESERVES					
For equity in H.E.P.C. systems	30,829.30	3,740.86	31,012.66	4,785.73	240,367.83
For depreciation	12,608.58	1,473.43	19,468.70	1,884.34	156,507.70
Other reserves			434.19		1,000.00
Total reserves	43,437.88	5,214.29	50,915.55	6,670.07	397,875.53
SURPLUS					
Debentures paid	12,429.35	5,408.91	39,189.33	7,605.84	43,800.00
Local sinking fund					158,940.77
Additional operating surplus	33,853.99	8,175.87	52,046.71	13,318.47	100,379.38
Total surplus	46,283.34	13,584.78	91,236.04	20,924.31	303,120.15
Total liabilities, reserves and surplus	163,375.75	22,990.16	316,604.51	38,587.87	1,151,214.21
Percentage of net debt to total assets	55.6	21.8	61.1	32.5	38.7

"A"—Continued

Hydro Municipalities as at December 31, 1930

Strathroy 2,737	Sutton 833	Tavistock 965	Tecumseh 2,260	Thamesford P.V.	Thamesville 886	Thedford 535	Thorndale P.V.
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
7,149.98		234.02			627.37		
11,918.37							
43,069.57	18,796.28	13,161.43	33,251.92	7,466.84	11,518.02	7,537.29	3,193.68
18,322.19	5,620.35	5,853.80	9,047.73	2,603.58	5,160.49	1,363.70	1,583.98
13,660.36	5,137.62	4,471.86	10,194.94	2,385.98	3,806.31	2,097.75	1,619.14
5,737.50	1,404.71	878.59		332.25	1,197.12	885.46	164.29
			4,760.95				
1,805.32	1,464.39	583.84	1,262.48	214.02	1,005.27	1,646.81	310.45
12,343.15	675.00				4,445.68	433.78	
114,006.44	33,098.35	25,183.54	58,518.02	13,002.67	27,760.26	13,964.79	6,871.54
50.00	781.31	2,009.53		3,117.16	1,310.40	471.57	1,235.47
		4,235.34		6,000.00	5,000.00	5,000.00	
5,715.54	2,634.05	357.27	3,620.63	433.92	429.54	225.56	372.00
3,274.85					4.70		
33,528.21	4,060.18	16,770.46	8,009.09	6,913.75	6,720.68	3,210.91	3,887.82
156,575.04	40,573.89	48,556.14	70,147.74	29,467.50	41,225.58	22,872.83	12,366.83
156,575.04	40,573.89	48,556.14	70,147.74	29,467.50	41,225.58	22,872.83	12,366.83
20,344.01	20,124.42	4,230.09	18,503.24	2,250.38	5,775.21	11,345.62	1,682.08
	1,991.47		6,611.94			489.66	47.74
2,705.07							
196.43			4,760.95		12.50	35.61	
23,245.51	22,115.89	4,230.09	29,876.13	2,250.38	5,787.71	11,870.89	1,729.82
33,528.21	4,060.18	16,770.46	8,009.09	6,913.75	6,720.68	3,210.91	3,887.82
20,172.50	2,651.93	5,446.71	7,003.97	3,802.37	4,131.75	1,749.83	1,994.99
414.25			150.00				
54,114.96	6,712.11	22,217.17	15,163.06	10,716.12	10,852.43	4,960.74	5,882.81
25,887.99	5,875.58	1,769.91	7,496.76	3,107.65	5,412.59	5,154.38	1,404.40
53,326.58	5,870.31	20,338.97	17,611.79	13,393.35	19,172.85	886.82	3,349.80
79,214.57	11,745.89	22,108.88	25,108.55	16,501.00	24,585.44	6,041.20	4,754.20
156,575.04	40,573.89	48,556.14	70,147.74	29,467.50	41,225.58	22,872.83	12,366.83
18.9	60.6	13.3	48.1	10.0	16.8	60.4	20.4

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Thorold	Tilbury	Tillsonburg	Toronto	Toronto Twp.
Population	5,037	1,886	3,166	585,628	8,047
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	....	969.46	6,918.30	3,889,438.03	6,366.13
Substation equipment	....	....	13,937.52	13,623,835.16	....
Distribution system, overhead	29,509.75	13,176.04	38,870.63	5,588,527.11	161,193.13
Distribution system, underground	....	....	....	3,657,728.79	....
Line transformers	12,195.14	11,576.10	14,528.24	2,977,805.43	39,342.22
Meters	18,555.09	7,281.34	14,732.79	2,802,293.21	26,960.29
Street light equipment, regular	2,687.06	1,001.16	3,263.29	459,040.35	3,674.84
Street light equipment, ornamental	....	....	510.67	....	....
Miscellaneous construction expense	5,144.75	1,326.60	3,393.17	2,542,338.56	2,918.58
Steam or hydraulic plant	23,643.54	....	....	....	....
Old plant	....	3,049.47	....	3,589.148.08	619.65
Total plant	91,735.33	38,380.17	96,154.61	39,130,154.72	241,074.84
Bank and cash balance	15,246.16	1,339.28	2,672.32	855,627.40	22,828.12
Securities and investments	....	10,000.00	21,000.00	....	....
Accounts receivable	2,435.24	1,612.71	4,131.22	2,001,932.96	6,252 46
Inventories	106.75	....	3,368.35	642,591.19	....
Sinking fund on local debentures	....	....	....	5,363,316.57	....
Equity in H-E.P.C. systems	26,298.75	17,424.77	34,639.54	6,978,210.21	29,725.55
Other assets	....	....	....	....	....
Total assets	135,822.23	68,756.93	161,966.04	54,971,833.05	299,880.97
Deficit	....	....	....	....	....
Total	135,822.23	68,756.93	161,966.04	54,971,833.05	299,880.97
LIABILITIES					
Debenture balance	1,245.49	8,467.59	13,563.65	27,043,445.12	75,477.05
Accounts payable	4,409.90	....	....	1,582,789.27	6,049.82
Bank overdraft	....	....	6,285.45	....	....
Other liabilities	1,439.50	....	1,764.00	....	....
Total liabilities	7,094.89	8,467.59	21,613.10	28,626,234.39	81,526.87
RESERVES					
For equity in H-E.P.C. systems	26,298.75	17,424.77	34,639.54	6,978,210.21	29,725.55
For depreciation	21,661.89	7,991.54	25,133.95	6,054,331.08	64,698.20
Other reserves	....	....	....	1,159,906.75	....
Total reserves	47,960.64	25,416.31	59,773.49	14,192,448.04	94,423.75
SURPLUS					
Debentures paid	3,754.51	5,532.41	22,436.35	4,213,554.88	28,522.95
Local sinking fund	....	....	....	5,363,316.57	....
Additional operating surplus	77,012.19	29,340.62	58,143.10	2,576,279.17	95,407.40
Total surplus	80,766.70	34,873.03	80,579.45	12,153,150.62	123,930.35
Total liabilities, reserves and surplus	135,822.23	68,756.93	161,966.04	54,971,833.05	299,880.97
Percentage of net debt to total assets	6.5	16.5	17.0	54.6	30.2

"A"—Continued

Hydro Municipalities as at December 31, 1930

Trafalgar Twp. Zone No. 1 3,732	Trafalgar Twp. Zone No. 2	Walkerville 10,671	Wallaceburg 4,360	Wardsville 214	Waterdown 874	Waterford 1,097	Waterloo 7,782
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
....	....	146,765.98	37,746.29	....	200.00	....	14,221.41
....	....	154,007.80	9,408.37	....	....	....	63,510.39
19,677.94	8,097.44	147,821.77	53,552.52	4,740.54	13,448.85	14,935.67	80,810.36
....	....	....	....	....	....	....	....
8,662.60	1,576.02	89,154.28	34,343.83	1,695.49	3,803.16	5,988.47	37,423.54
4,097.83	1,009.68	67,272.56	18,919.28	1,151.67	5,120.50	5,739.04	34,012.87
....	....	....	2,449.45	519.36	583.81	2,496.22	13,526.67
....	....	180,731.58	7,619.79	....	....	....	3,106.80
1,436.76	278.16	38,923.23	9,162.38	488.73	397.65	442.53	4,780.80
....	....	....	....	....	....	....	....
....	....	18,335.05	20,941.07	193.94	....	....	24,160.67
33,875.13	10,961.30	843,012.25	194,142.98	8,789 73	23,553.97	29,601.93	275,553.51
1,552.94	298.93	32,080.01	6,181.11	....	1,578.26	145.21	....
....	....	....	....	1,000.00	2,000.00	8,000.00	....
161.77	14.66	114,794.71	9,087.34	227.01	4,507.08	534.94	13,692.54
....	....	33,983.93	4,232.69	13.30	....	....	1,600.38
....	....	....	....	....	....	....	6,048.00
....	....	247,727.70	73,888.74	1,182.11	9,772.03	11,976.35	102,032.46
....	....	4,842.09	....	....	....	....	....
35,589.84	11,274.89	1,276,440.69	287,532.86	11,212.15	41,411.34	50,258.43	398,926.89
....	....	....	....	....	....	....	....
35,589.84	11,274.89	1,276,440.69	287,532.86	11,212.15	41,411.34	50,258.43	398,926.89
15,258.19	....	181,238.15	52,347.85	5,063.13	967.45	....	65,588.39
....	10,000.00	79,464.45	....	353.70	931.39	....	6,574.19
....	....	....	....	25.21	....	....	6,367.18
....	....	199,061.08	1,210.46	....	5.00	....	3,106.80
15,258.19	10,000.00	459,763.68	53,558.31	5,442.04	1,903.84	....	81,636.56
....	....	247,727.70	73,888.74	1,182.11	9,772.03	11,976.35	102,032.46
8,848.67	403.00	87,782.05	29,164.30	1,236.84	6,856.94	7,607.32	75,774.32
....	....	3,416.95	211.14	....	....	....	....
8,848.67	403.00	338,926.70	103,264.18	2,418.95	16,628.97	19,583.67	177,806.78
4,168.22	....	118,020.85	19,188.73	2,499.27	7,032.55	7,745.53	40,411.61
....	....	....	....	....	....	....	6,048.00
7,314.76	871.89	359,729.46	111,521.64	851.89	15,845.98	22,929.23	93,023.94
11,482.98	871.89	477,750.31	130,710.37	3,351.16	22,878.53	30,674.76	139,483.55
35,589.84	11,274.89	1,276,440.69	287,532.86	11,212.15	41,411.34	50,258.43	398,926.89
42.9	88.7	44.7	25.1	54.3	6.0	0.0	26.0

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Watford	Welland	Wellesley	West Lorne	Weston
Population	1,045	10,054	P.V.	777	4,425
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	....	51,489.56	....	....	7,721.81
Substation equipment	....	56,574.00	....	....	32,737.85
Distribution system, overhead	15,473.34	130,241.76	5,525.11	11,383.26	56,804.99
Distribution system, underground	....	6,810.93	....	....	....
Line transformers	4,993.84	52,970.30	2,153.50	4,738.99	34,305.93
Meters	4,992.17	53,355.97	2,321.20	3,103.93	20,412.41
Street light equipment, regular	737.73	4,420.80	545.11	615.97	8,076.39
Street light equipment, ornamental	....	27,252.86	....	....	20,863.13
Miscellaneous construction expense	2,186.69	10,637.27	102.05	347.14	8,631.58
Steam or hydraulic plant	....	....	....	....	....
Old plant	657.44	51,280.78	....	1,250.00	....
Total plant	29,041.21	445,034.23	10,646.97	21,439.29	189,554.09
Bank and cash balance	3,221.22	16,557.69	2,352.43	....	2,891.24
Securities and investments	2,000.00	4,487.73	....	1,000.00	....
Accounts receivable	1,252.19	11,929.60	399.60	172.23	11,152.99
Inventories	45.00	6,355.82	11.22	22.03	266.09
Sinking fund on local debentures	....	82,949.05	....	....	....
Equity in H-E.P.C. systems	7,854.84	112,229.22	7,424.00	13,317.15	90,084.03
Other assets	....	2,962.58	....	....	1,306.45
Total assets	43,414.46	682,505.92	20,834.22	35,950.70	295,254.89
Deficit	....	....	....	....	....
Total	43,414.46	682,505.92	20,834.22	35,950.70	295,254.89
LIABILITIES					
Debenture balance	3,573.34	249,250.64	3,215.36	5,873.65	47,006.86
Accounts payable	836.79	17,534.16	468.00	1,160.15	....
Bank overdraft	....	....	....	26.67	....
Other liabilities	....	33,422.86	....	....	1,306.45
Total liabilities	4,410.13	300,207.66	3,683.36	7,060.47	48,313.31
RESERVES					
For equity in H-E.P.C. systems	7,854.84	112,229.22	7,424.00	13,317.15	90,084.03
For depreciation	3,649.24	97,407.02	1,646.80	4,548.14	21,976.03
Other reserves	....	....	....	....	....
Total reserves	11,504.08	209,636.24	9,070.80	17,865.29	112,060.06
SURPLUS					
Debentures paid	6,139.87	25,749.36	4,284.64	2,126.35	23,025.58
Local sinking fund	....	82,949.05	....	....	....
Additional operating surplus	21,360.38	63,963.61	3,795.42	8,898.59	111,855.94
Total surplus	27,500.25	172,662.02	8,080.06	11,024.94	134,881.52
Total liabilities, reserves and surplus	43,414.46	682,505.92	20,834.22	35,950.70	295,254.89
Percentage of net debt to total assets	12.4	44.6	27.5	31.2	23.5

"A"—Continued

Hydro Municipalities as at December 31, 1930

Wheatley 698	Windsor 68,569	Woodbridge 727	Woodstock 10,687	Wyoming 472	York Twp. 55,187	E. York Twp. 27,408	N. York Twp. 10,332
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
....	289,654.48	....	35,489.71	....	....	16,946.49	27,409.95
....	645,659.65	....	89,309.81	....	....	8,217.77	17.15
12,971.56	826,874.62	15,002.46	96,202.47	6,914.27	697,722.57	254,039.92	269,495.54
....	31,754.15	....	....	....	....	....	....
4,091.41	344,889.14	5,575.29	52,844.44	1,257.61	....	57,040.16	60,028.77
3,466.22	332,592.96	4,099.37	51,296.08	2,123.83	....	124,739.26	33,848.06
1,519.76	44,810.28	423.26	14,671.01	283.92	47,041.32	17,945.68	12,479.50
....	658,532.08	....	....	....	....	955.29	....
665.00	132,350.28	627.35	5,111.16	805.20	19,070.96	14,534.97	14,796.58
....	....	....	....	....	....	....	....
2,569.50	141,990.11	....	....	....	....	....	....
25,283.45	3,449,107.75	25,727.73	344,924.68	11,384.83	763,834.85	494,419.54	418,075.55
4,033.81	11,915.83	737.99	43,416.19	256.74	60,122.25	238.53	8,689.23
....	30,291.65	1,000.00	31,000.00	....	....	3,151.58	....
24.46	202,974.44	1,285.53	13,657.82	80.57	77,054.52	26,577.82	10,982.97
....	85,345.76	....	1,422.77	....	....	6,616.27	....
....	134,156.63	....	42,150.73	....	....	....	....
3,747.14	736,357.69	11,269.16	146,506.22	3,122.44	....	61,766.45	21,977.44
....	6,891.22	....	....	....	28,114.40	....	3,311.71
33,088.86	4,657,040.97	40,020.41	623,078.41	14,844.58	929,126.02	592,770.19	463,036.90
....	....	....	....	1,325.52	....	....	....
33,088.86	4,657,040.97	40,020.41	623,078.41	16,170.10	929,126.02	592,770.19	463,036.90
9,917.84	1,564,000.33	5,870.39	78,708.99	3,763.38	474,900.42	301,248.43	333,289.51
....	66,895.96	2,525.77	....	....	8,546.13	15,894.49	678.40
....	....	165.33	....	....	....	....	....
....	707,640.81	66.50	4,760.45	....	....	10,901.73	15,601.34
9,917.84	2,338,537.10	8,627.99	83,469.44	3,763.38	483,446.55	328,044.65	349,569.25
3,747.14	736,357.69	11,269.16	146,506.22	3,122.44	....	61,766.45	21,977.44
2,265.00	298,977.79	5,722.74	101,513.03	3,347.66	94,748.58	37,937.97	33,248.52
....	33,978.68	....	11,336.60	....	....	....	....
6,012.14	1,069,314.16	16,991.90	259,355.85	6,470.10	94,748.58	99,704.42	55,225.96
3,082.16	425,999.70	2,629.58	48,676.64	5,936.62	125,099.58	55,819.35	29,732.36
....	134,156.63	....	42,150.73	....	....	....	....
14,076.72	689,033.38	11,770.94	189,425.75	....	225,831.31	109,201.77	28,509.33
17,158.88	1,249,189.71	14,400.52	280,253.12	5,936.62	350,930.89	165,021.12	58,241.69
33,088.86	4,657,040.97	40,020.41	623,078.41	16,170.10	929,126.02	592,770.19	463,036.90
33.8	58.2	30.0	9.5	32.1	53.7	61.8	79.3

STATEMENT

Balance Sheets of Electrical Departments of

NIAGARA SYSTEM—Concluded			GEORGIAN BAY SYSTEM		
Municipality Population	Zurich P.V.	NIAGARA SYSTEM SUMMARY	Alliston 1,342	Arthur 952	Barrie 7,311
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	....	7,069,889.00	....	....	14,198.21
Substation equipment	....	18,309,262.59	675.73	....	5,615.98
Distribution system, overhead	6,912.47	15,522,393.46	23,248.03	16,758.51	50,746.25
Distribution system, underground	....	4,562,738.67	....	....	63,652.35
Line transformers	1,643.52	6,847,019.52	5,938.26	4,163.78	32.474.43
Meters	2,223.26	6,473,137.14	6,615.67	3,179.53	34,913.07
Street light equipment, regular	471.82	1,327,980.96	1,453.49	767.21	5,537.37
Street light equipment, ornamental	....	1,398,318.15	....	....	6,516.82
Miscellaneous construction expense	240.77	3,631,205.50	2,585.04	369.52	1,816.56
Steam or hydraulic plant	....	23,643.54	....	....	....
Old plant	150.00	4,353,909.01	7,846.49	1,086.62	41,348.61
Total plant	11,641.84	69,519,497.54	48,362.71	26,325.17	256,819.65
Bank and cash balance	560.35	2,166,883.25	10,784.31	....	....
Securities and investments	2,000.00	516,410.51	....	....	5,063.02
Accounts receivable	474.53	3,914,741.52	1,317.59	616.02	12,583.05
Inventories	....	1,096,166.49	....	....	1,103.17
Sinking fund on local debentures	....	7,155,699.38	....	....	....
Equity in H-E.P.C. systems	5,396.71	15,780,538.21	7,164.18	7,439.70	45,639.57
Other assets	....	160,285.95	....	....	....
Total assets	20,073.43	100,310,222.85	67,628.79	34,380.89	321,208.46
Deficit	....	11,458.19	....	7,182.81	....
Total	20,073.43	100,321,681.04	67,628.79	41,563.70	321,208.46
LIABILITIES					
Debenture balance	4,239.96	40,603,854.11	29,909.17	19,686.71	12,585.49
Accounts payable	....	2,688,696.29	2,666.67	....	8,845.09
Bank overdraft	....	272,070.43	....	154.17	9,272.04
Other liabilities	....	1,603,678.19	....	....	....
Total liabilities	4,239.96	45,168,299.02	32,575.84	19,840.88	30,702.62
RESERVES					
For equity in H-E.P.C. systems	5,396.71	15,780,538.21	7,164.18	7,439.70	45,639.57
For depreciation	3,048.43	10,830,378.20	11,418.68	8,969.83	42,619.38
Other reserves	....	1,354,853.79	....	....	700.00
Total reserves	8,445.14	27,965,770.20	18,582.86	16,409.53	88,958.95
SURPLUS					
Debentures paid	1,351.65	8,810,044.19	10,090.83	5,313.29	74,414.51
Local sinking fund	....	7,155,699.38	....	....	....
Additional operating surplus	6,036.68	11,221,868.25	6,379.26	....	127,132.38
Total surplus	7,388.33	27,187,611.82	16,470.09	5,313.29	201,546.89
Total liabilities, reserves and surplus	20,073.43	100,321,681.04	67,628.79	41,563.70	321,208.46
Percentage of net debt to total assets	28.9	49.1	53.9	73.6	11.1

"A"—Continued

Hydro Municipalities as at December 31, 1930

Beaverton 970	Beeton 560	Bradford 884	Brechin P.V.	Cannington 878	Chatsworth 257	Chesley 1,772	Coldwater 615
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
299.50	....	....	....	....	221.00	....	275.00
....	428.50	388.50	....	....	....	595.98	....
22,217.86	11,539.04	18,056.24	1,757.07	9,347.66	4,412.84	19,404.55	7,474.22
....	....	....	....	....	....	....	....
7,775.81	2,177.42	2,886.97	1,031.71	3,082.79	1,014.91	6,113.72	2,779.67
6,234.25	1,729.89	3,488.03	622.33	3,962.85	1,201.13	6,955.42	2,702.87
1,303.41	1,169.54	544.95	212.44	733.17	500.43	1,105.27	399.16
....	....	....	....	....	....	....	....
2,445.56	1,415.94	1,828.94	546.92	587.33	385.90	3,418.32	145.03
....	....	....	....	....	....	....	....
3,772.42	....	....	....	3,609.37	....	5,503.60	....
44,048.81	18,460.33	27,193.63	4,170.47	21,323.17	7,736.21	43,096.86	13,775.95
2,009.10	....	2,769.68	770.52	3,291.13	2,598.93	580.56	1,291.84
4,000.00	....	4,500.00	....	2,326.62	....	10,000.00	6,000.00
2,865.44	1,709.11	986.31	517.20	701.25	190.55	1,341.44	1,582.58
....	28.89	3.93	....	264.34	....	160.96	....
....	....	....	....	....	2,517.04	....	....
8,812.85	5,777.68	6,516.91	3,625.15	6,606.23	1,517.60	12,403.58	4,494.50
....	....	88.92	....	....	....	....	....
61,736.20	25,976.01	42,059.38	9,083.34	34,512.74	14,560.33	67,583.40	27,144.87
....	745.61	....	....	....	....	....	....
61,736.20	26,721.62	42,059.38	9,083.34	34,512.74	14,560.33	67,583.40	27,144.87
8,310.67	11,406.36	20,548.99	2,433.40	9,696.77	4,830.12	10,528.44	4,391.03
2,415.85	554.00	543.22	94.23	....	....	....	....
....	532.50	....	....	....	....	....	....
276.00	....	87.43	....	....	....	....	33.00
11,002.52	12,492.86	21,179.64	2,527.63	9,696.77	4,830.12	10,528.44	4,424.03
8,812.85	5,777.68	6,516.91	3,625.15	6,606.23	1,517.60	12,403.58	4,494.50
8,755.78	4,857.44	6,896.01	1,341.18	5,867.53	2,185.26	10,963.13	5,601.51
....	....	....	....	....	....	....	....
17,568.63	10,635.12	13,412.92	4,966.33	12,473.76	3,702.86	23,366.71	10,096.01
6,689.33	3,593.64	4,651.01	777.52	5,303.23	569.88	16,971.56	2,608.97
....	....	....	....	....	2,517.04	....	....
26,475.72	....	2,815.81	811.86	7,038.98	2,940.43	16,716.69	10,015.86
33,165.05	3,593.64	7,466.82	1,589.38	12,342.21	6,027.35	33,688.25	12,624.83
61,736.20	26,721.62	42,059.38	9,083.34	34,512.74	14,560.33	67,583.40	27,144.87
20.8	61.9	59.6	46.3	34.7	22.0	19.1	19.5

STATEMENT

Balance Sheets of Electrical Departments of

GEORGIAN BAY SYSTEM—Continued

Municipality Population	Collingwood 6,126	Cookstown P.V.	Creemore 610	Dundalk 594	Durham 1,722
Assets	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	14,598.66	60.00			56.59
Substation equipment	11,203.24	392.95			546.02
Distribution system, overhead	47,291.00	9,065.60	6,065.98	7,378.40	19,324.89
Distribution system, underground					
Line transformers	15,257.06	2,010.72	1,876.49	3,219.77	6,357.75
Meters	22,269.71	1,637.69	2,718.86	2,178.65	5,808.89
Street light equipment, regular	2,857.01	514.21	295.27	1,085.00	1,210.77
Street light equipment, ornamental					
Miscellaneous construction expense	8,519.40	1,499.15	185.41	488.38	976.57
Steam or hydraulic plant					
Old plant	473.20		2,651.15	380.94	2,091.39
Total plant	122,469.28	15,180.32	13,793.16	14,731.14	36,372.87
Bank and cash balance		2,085.05	972.11	404.92	3,475.52
Securities and investments	27,000.00		4,000.00	4,000.00	78,000.00
Accounts receivable	8,198.67	326.51	558.84	483.40	427.22
Inventories	682.44	17.65	75.95	23.70	37.13
Sinking fund on local debentures					
Equity in H-E.P.C. systems	59,262.32	1,745.07	4,611.22	4,239.26	12,347.13
Other assets					
Total assets	217,612.71	19,354.60	24,011.28	23,882.42	70,659.87
Deficit		591.43			
Total	217,612.71	19,946.03	24,011.28	23,882.42	70,659.87
Liabilities					
Debenture balance	4,298.38	8,348.63	1,963.83	1,788.26	7,917.64
Accounts payable	5,105.66	126.18	543.83	14.40	109.44
Bank overdraft	115.20				
Other liabilities	1,654.76				
Total liabilities	11,174.00	8,474.81	2,507.66	1,802.66	8,027.08
Reserves					
For equity in H-E.P.C. systems	59,262.32	1,745.07	4,611.22	4,239.26	12,347.13
For depreciation	33,749.29	4,574.78	3,389.95	2,964.44	9,138.86
Other reserves					
Total reserves	93,011.61	6,319.85	8,001.17	7,203.70	21,485.99
Surplus					
Debentures paid	38,306.21	5,151.37	4,536.17	4,548.64	17,882.36
Local sinking fund					
Additional operating surplus	75,120.89		8,966.28	10,327.42	23,264.44
Total surplus	113,427.10	5,151.37	13,502.45	14,876.06	41,146.80
Total liabilities, reserves and surplus	217,612.71	19,946.03	24,011.28	23,882.42	70,659.87
Percentage of net debt to total assets	7.1	48.1	12.9	9.2	13.8

"A"—Continued

Hydro Municipalities as at December 31, 1930

Elmvale P.V.	Elmwood P.V.	Flesherton 454	Grand Valley 583	Gravenhurst 1,776	Hanover 2,626	Holstein P.V.	Huntsville 2,608
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
106.25	....	....	36.50	2,747.29	3,001.32	....	353.52
....	....	....	....	6,372.35	9,271.19	....	647.30
10,154.65	4,803.32	5,311.00	9,744.65	20,725.27	48,138.33	2,102.68	12,935.39
....	....	....	....	....	....	....	....
3,450.35	803.88	1,802.52	1,374.97	6,039.53	16,292.40	555.22	5,492.00
2,962.65	898.21	1,852.83	2,363.75	7,521.39	15,128.80	510.32	8,265.95
447.17	302.28	500.83	568.72	655.27	2,326.30	168.69	2,240.20
....	....	....	....	3,249.44	....	....	....
510.13	1,093.62	887.26	205.70	2,058.15	6,613.77	205.93	795.20
....	....	....	....	....	....	....	....
....	....	....	919.85	26,976.29	2,370.91	....	5,436.20
17,631.20	7,901.31	10,354.44	15,214.14	76,344.98	103,143.02	3,542.84	36,165.76
2,884.29	2,059.21	2,301.76	3,826.75	4,249.89	5,866.30	82.77	4,242.05
2,000.00	....	....	3,739.28	5,800.00	27,496.50	....	8,000.00
76.75	137.20	440.40	505.12	7,095.46	3,952.15	340.62	5,575.24
....	18.51	....	47.52	798.93	....	54.81	1,606.04
....	315.84	....	....	6,125.29	....	....	....
6,552.86	1,259.30	2,392.84	4,409.70	7,063.93	32,402.77	1,419.72	20,969.70
....	....	....	....	....	....	....	....
29,145.10	11,691.37	15,489.44	27,742.51	107,478.48	172,860.74	5,440.76	76,558.79
....	....	....	....	....	....	4,338.89	....
29,145.10	11,691.37	15,489.44	27,742.51	107,478.48	172,860.74	9,779.65	76,558.79
4,035.95	3,824.72	4,472.14	4,715.85	17,501.19	49,022.45	834.05	5,360.69
831.58	201.17	41.67	51.23	2,399.58	6,060.36	4,659.69	....
....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	221.85
4,867.53	4,025.89	4,513.81	4,767.08	19,900.77	55,082.81	5,493.74	5,582.54
6,552.86	1,259.30	2,392.84	4,409.70	7,063.93	32,402.77	1,419.72	20,969.70
5,162.89	2,064.73	2,859.70	5,119.71	14,194.69	29,253.08	938.19	9,489.46
....	....	....	....	....	....	....	....
11,715.75	3,324.03	5,252.54	9,529.41	21,258.62	61,655.85	2,357.91	30,459.16
2,964.05	3,375.28	2,227.86	6,284.15	46,467.25	38,477.55	1,928.00	15,772.85
....	315.84	....	....	6,125.29	....	....	....
9,597.77	650.33	3,495.23	7,161.87	13,726.55	17,644.53	....	24,744.24
12,561.82	4,341.45	5,723.09	13,446.02	66,319.09	56,122.08	1,928.00	40,517.09
29,145.10	11,691.37	15,489.44	27,742.51	107,478.48	172,860.74	9,779.65	76,558.79
21.5	36.7	34.5	20.4	14.6	39.2	136.6	10.0

STATEMENT

Balance Sheets of Electrical Departments of

GEORGIAN BAY SYSTEM—Continued

Municipality	Kincardine	Kirkfield	Lucknow	Markdale	Meaford
Population	2,352	P.V.	1,147	798	2,729
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	6,389.46	....	....	....	1,104.93
Substation equipment	2,794.20	....	....	780.80	2,398.85
Distribution system, overhead	38,781.64	5,113.67	16,459.40	9,199.23	29,200.31
Distribution system, underground	....	....	....	....	....
Line transformers	8,583.14	557.90	3,714.47	2,997.21	6,924.95
Meters	9,199.48	600.28	4,346.33	3,067.69	6,481.25
Street light equipment, regular	4,580.96	379.00	1,310.17	1,095.62	3,088.31
Street light equipment, ornamental	....	....	....	....	....
Miscellaneous construction expense	5,602.23	301.53	2,333.02	665.79	2,257.11
Steam or hydraulic plant	....	....	....	....	....
Old plant	....	....	....	2,080.65	3,499.68
Total plant	75,931.11	6,952.38	28,163.39	19,886.99	54,955.39
Bank and cash balance	348.08	681.26	2,576.87	1,315.36	2,733.40
Securities and investments	....	....	2,000.00	4,500.00	15,702.09
Accounts receivable	4,633.70	23.30	1,158.06	222.56	830.99
Inventories	1,757.45	....	....	279.39	....
Sinking fund on local debentures	....	....	....	....	....
Equity in H-E.P.C. systems	10,859.05	1,151.76	5,432.41	3,141.68	7,014.03
Other assets	....	....	....	....	599.63
Total assets	93,529.39	8,808.70	39,330.73	29,345.98	81,835.53
Deficit	....	706.44	....	....	....
Total	93,529.39	9,515.14	39,330.73	29,345.98	81,835.53
LIABILITIES					
Debenture balance	40,091.31	3,850.23	13,536.39	6,350.84	36,544.08
Accounts payable	44.89	952.31	....	60.00	....
Bank overdraft	....	....	....	....	....
Other liabilities	....	....	5.00	20.00	550.32
Total liabilities	40,136.20	4,802.54	13,541.39	6,430.84	37,094.40
RESERVES					
For equity in H-E.P.C. systems	10,859.05	1,151.76	5,432.41	3,141.68	7,014.03
For depreciation	10,469.19	1,411.07	3,630.43	5,620.54	5,738.22
Other reserves	....	....	....	....	....
Total reserves	21,328.24	2,562.83	9,062.84	8,762.22	12,752.25
SURPLUS					
Debentures paid	24,108.69	2,149.77	6,186.97	2,649.16	12,816.12
Local sinking fund	....	....	....	....	....
Additional operating surplus	7,956.26	....	10,539.53	11,503.76	19,172.76
Total surplus	32,064.95	2,149.77	16,726.50	14,152.92	31,988.88
Total liabilities, reserves and surplus	93,529.39	9,515.14	39,330.73	29,345.98	81,835.53
Percentage of net debt to total assets	48.5	62.7	39.9	24.5	49.6

"A"—Continued

Hydro Municipalities as at December 31, 1930

Midland 7,826	Mount Forest 1,823	Neustadt 431	Orangeville 2,721	Owen Sound 12,304	Paisley 700	Penetanguishene 3,615	Port McNicoll 831
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
19,036.05	3,725.00	....	2,585.07	25,978.31	....	2,151.00	202.60
85,096.20	686.75	....	1,169.00	11,999.17	1,933.26	7,076.39	....
92,242.10	21,719.14	9,965.81	30,906.77	103,757.18	11,055.80	40,184.27	7,206.45
....	....	....	....	....	....	....	....
21,575.64	6,397.49	4,374.69	5,660.90	43,231.29	1,576.74	14,788.02	1,248.32
35,153.79	6,791.49	2,017.85	10,035.49	54,856.45	2,816.07	12,912.44	2,277.08
6,609.81	2,281.55	496.41	1,391.17	15,017.03	1,037.03	2,860.64	225.81
11,904.53	....	....	5,959.97	12,415.16	....	....	....
7,272.77	2,206.40	1,521.48	6,006.09	5,449.29	738.33	2,257.60	672.85
....	....	....	....	33,282.00	....	....	....
14,315.62	3,958.97	1,097.60	3,204.99	....	1,745.00	4,017.05	....
293,206.51	47,766.79	19,473.84	66,919.45	305,985.88	20,902.23	86,247.41	11,833.11
11,530.78	3,109.53	1,014.47	2,054.91	18,638.15	82.97	2,946.02	961.88
29,000.00	8,000.00	....	3,483.02	....	2,500.00	1,517.42	....
19,076.57	678.91	57.19	....	5,740.28	990.20	2,734.08	804.05
4,452.21	150.95	....	265.45	6,477.85	....	744.96	88.58
....	....	....	....	16,955.58	....	....	....
88,335.01	10,950.44	3,950.98	13,031.59	62,857.87	3,090.98	26,579.26	2,134.64
....	....	....	762.43	9,898.33	....	....	....
445,601.08	70,656.62	24,496.48	86,516.85	426,553.94	27,566.38	120,769.15	15,822.26
....	....	11,361.08	....	....	....	....	....
445,601.08	70,656.62	35,857.56	86,516.85	426,553.94	27,566.38	120,769.15	15,822.26
45,645.27	14,198.93	9,555.11	14,630.97	20,000.00	12,206.60	20,928.98	3,441.34
15,916.28	....	9,623.94	2,279.49	9,034.99	408.25	....	2.90
....	....	....	....	....	....	....	....
528.42	....	....	....	1,786.71	....	....	....
62,089.97	14,198.93	19,179.05	16,910.46	30,821.70	12,614.85	20,928.98	3,444.24
88,335.01	10,950.44	3,950.98	13,031.59	62,857.87	3,090.98	26,579.26	2,134.64
84,702.15	10,961.60	5,282.64	14,656.18	44,242.18	2,251.85	24,525.45	3,436.29
....	....	....	762.43	9,898.33	....	....	....
173,037.16	21,912.04	9,233.62	28,450.20	116,998.38	5,342.83	51,104.71	5,570.93
66,424.72	16,759.67	7,444.89	21,269.03	121,000.00	3,793.40	20,071.02	3,858.66
....	....	....	....	16,955.58	....	....	....
144,049.23	17,785.98	....	19,887.16	140,778.28	5,815.30	28,664.44	2,948.43
210,473.95	34,545.65	7,444.89	41,156.19	278,733.86	9,608.70	48,735.46	6,807.09
445,601.08	70,656.62	35,857.56	86,516.85	426,553.94	27,566.38	120,769.15	15,822.26
17.4	23.8	93.3	23.0	4.0	51.5	22.2	25.2

STATEMENT

Balance Sheets of Electrical Departments of

GEORGIAN BAY SYSTEM—Continued

Municipality	Port Perry	Priceville	Ripley	Shelburne	Stayner
Population	1,185	P.V.	423	1,135	968
	$ c.	$ c.	$ c.	$ c.	$ c.
ASSETS					
Lands and buildings		68.00		800.00	
Substation equipment	2,564.65			566.60	200.00
Distribution system, overhead	18,708.32	4,641.50	9,138.49	13,969.45	11,342.25
Distribution system, underground					
Line transformers	4,219.57	549.70	2,885.36	4,667.88	4,850.40
Meters	3,835.83	362.85	1,181.13	6,012.85	4,715.61
Street light equipment, regular	1,037.90	139.88	844.33	1,059.60	884.35
Street light equipment, ornamental					
Miscellaneous construction expense	606.42	833.90	1,164.99	2,277.07	321.33
Steam or hydraulic plant					
Old plant				739.50	4,132.41
Total plant	30,972.69	6,595.83	15,214.30	30,092.95	26,446.35
Bank and cash balance	4,436.10	2.57	1,183.75	4,472.30	838.62
Securities and investments	7,946.66		1,500.00	5,000.00	7,000.00
Accounts receivable	960.33		44.97	773.65	654.46
Inventories				43.79	
Sinking fund on local debentures					
Equity in H-E.P.C. systems	4,490.51	493.45	2,463.62	6,820.74	5,822.33
Other assets					
Total assets	48,806.29	7,091.85	20,406.64	47,203.43	40,761.76
Deficit		5,015.13			
Total	48,806.29	12,106.98	20,406.64	47,203.43	40,761.76
LIABILITIES					
Debenture balance	17,079.27	3,978.42	11,471.10	8,082.71	4,241.37
Accounts payable	357.60	3,458.63	19.84	957.32	64.30
Bank overdraft					
Other liabilities	78.00		28.85		
Total liabilities	17,514.87	7,437.05	11,519.79	9,040.03	4,305.67
RESERVES					
For equity in H-E.P.C. systems	4,490.51	493.45	2,463.62	6,820.74	5,822.33
For depreciation	4,033.21	1,154.90	2,430.18	7,700.43	6,869.42
Other reserves					
Total reserves	8,523.72	1,648.35	4,893.80	14,521.17	12,691.75
SURPLUS					
Debentures paid	2,802.39	3,021.58	2,500.84	11,837.29	9,758.63
Local sinking fund					
Additional operating surplus	19,965.31		1,492.21	11,804.94	14,005.71
Total surplus	22,767.70	3,021.58	3,993.05	23,642.23	23,764.34
Total liabilities, reserves and surplus	48,806.29	12,106.98	20,406.64	47,203.43	40,761.76
Percentage of net debt to total assets	39.5	112.7	64.2	22.4	12.3

"A"—Continued

Hydro Municipalities as at December 31, 1930

Sunderland P.V.	Tara 441	Teeswater 817	Thornton P.V.	Tottenham 545	Uxbridge 1,425	Victoria Harbor 1,104	Waubaushene P.V.
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
....	....	....	....	....	40.00	....	....
....	....	330.31	....	358.50	2,657.65	....	....
3,897.20	10,836.13	14,742.84	6,406.51	7,972.78	12,883.80	7,689.15	4,959.14
....	....	....	....	....	....	....	....
1,269.15	1,904.89	3,389.21	860.41	1,117.48	3,643.96	1,135.83	989.81
1,834 80	1,559.81	3,166.18	766.71	1,843.47	4,120.71	2,216.51	1,423.33
282.89	430.59	1,395.76	375.90	460.17	1,214.74	337.47	221.79
....	....	....	....	....	....	....	....
154.72	1,243.96	1,801.40	300.35	1,265.68	843.50	667.12	327.66
....	....	....	....	....	....	....	....
2,030 00	....	4,976.86	....	286.45	....	....	....
9,468.76	15,975.38	29,802.56	8,709.88	13,304.53	25,404.36	12,046.08	7,921.73
1,969.57	776.78	2,520.44	159.60	668.78	2,055.31	2,042.79	3,528.47
....	....	2,000.00	....	....	8,000.00	....	....
502.16	30.52	269.83	551.21	1,177.37	1,203.62	186.05	25.95
....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....
4,689.94	3,314.63	4,292.74	1,235.99	3,677.68	4,779.75	2,516.77	1,411.28
....	....	....	....	74.01	....	....	....
16,630.43	20,097.31	38,885.57	10,656.68	18,902.37	41,443.04	16,791.69	12,887.43
....	3,582.89	....	5,065.38	2,670.99	....	....	....
16,630.43	23,680.20	38,885.57	15,722.06	21,573.36	41,443.04	16,791.69	12,887.43
3,912.31	8,181.16	15,352.25	4,593.60	8,724.41	14,618.84	2,322.70	1,285.34
107.20	50.38	562.34	4,099.22	1,358.41	....	6.91	200.37
....	....	....	....	....	....	....	....
....	....	....	....	73.00	....	....	....
4,019.51	8,231.54	15,914.59	8,692.82	10,155.82	14,618.84	2,329.61	1,485.71
4,689.94	3,314.63	4,292.74	1,235.99	3,677.68	4,779.75	2,516.77	1,411.28
2,531.05	4,815.19	3,322.83	2,886.85	3,497.17	2,922.24	3,248.48	1,841.75
....	....	....	....	....	....	....	....
7,220.99	8,129.82	7,615.57	4,122.84	7,174.85	7,701.99	5,765.25	3,253.03
2,887.69	7,318.84	12,647.75	2,906.40	4,242.69	1,588.75	4,177.30	2,214.66
....	....	....	....	....	....	....	....
2,502.24	....	2,707.66	....	....	17,533.46	4,519.53	5,934.03
5,389.93	7,318.84	15,355.41	2,906.40	4,242.69	19,122.21	8,696.83	8,148.69
16,630.43	23,680.20	38,885.57	15,722.06	21,573.36	41,443.04	16,791.69	12,887.43
33.7	49.0	46.0	92.3	66.7	39.9	16.3	12.9

STATEMENT

Balance Sheets of Electrical Departments of

GEORGIAN BAY SYSTEM—Concluded					EASTERN SYSTEM
Municipality Population	Windermere 123	Wingham 2,362	Woodville 405	GEORGIAN BAY SYSTEM SUMMARY	Alexandria 2,300
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	....	8,423.66	....	106,457.92	202.00
Substation equipment	....	4,699.84	....	161,449.91	....
Distribution system, overhead	8,956.41	38,032.66	2,875.73	980,847.56	28,133.40
Distribution system, underground	....	....	....	63,652.35	....
Line transformers	2,578.71	14,302.91	1,760.09	305,728.30	7,803.54
Meters	743.46	12,601.71	1,864.84	344,528.18	6,705.56
Street light equipment, regular	247.26	3,292.12	127.31	79,623.73	2,224.20
Street light equipment, ornamental	....	....	....	40,045.92	....
Miscellaneous construction expense	....	4,612.07	251.91	93,540.30	5,638.93
Steam or hydraulic plant	....	13,592.99	....	46,874.99	....
Old plant	....	12,327.52	2,182.50	165,061.84	4,466.89
Total plant	12,525.84	111,885.48	9,062.38	2,387,811.00	55,174.52
Bank and cash balance	466.93	3,144.82	1,178.28	133,985.48	7,838.74
Securities and investments	....	6,000.00	6,500.00	242,574.61	....
Accounts receivable	2,887.62	5,519.20	319.76	104,584.71	3,487.92
Inventories	....	3,086.61	....	22,271.21	....
Sinking fund on local debentures	....	....	....	25,913.75	....
Equity in H-E.P.C. systems	90.08	12,148.58	4,790.31	570,241.87	12,070.02
Other assets	....	....	....	11,423.32	....
Total assets	15,970.47	141,784.69	21,850.73	3,498,805.95	78,571.20
Deficit	....	....	....	41,260.65	....
Total	15,970.47	141,784.69	21,850.73	3,540,066.60	78,571.20
LIABILITIES					
Debenture balance	....	46,297.46	3,527.34	643,059.26	27,138.42
Accounts payable	13,140.29	....	....	97,969.71	2,074.68
Bank overdraft	....	....	....	10,073.91	....
Other liabilities	....	250.00	....	5,593.34	140.98
Total liabilities	13,140.29	46,547.46	3,527.34	756,696.22	29,354.08
RESERVES					
For equity in H-E.P.C. systems	90.08	12,148.58	4,790.31	570,241.87	12,070.02
For depreciation	104.00	15,851.62	1,711.97	514,224.58	7,788.06
Other reserves	1,750.00	....	....	13,110.76	325.25
Total reserves	1,944.08	28,000.20	6,502.28	1,097,577.21	20,183.33
SURPLUS					
Debentures paid	....	49,808.04	1,972.66	747,123.12	20,995.42
Local sinking fund	....	....	....	25,913.75	....
Additional operating surplus	886.10	17,428.99	9,848.45	912,756.30	8,038.37
Total surplus	886.10	67,237.03	11,821.11	1,685,793.17	29,033.79
Total liabilities, reserves and surplus	15,970.47	141,784.69	21,850.73	3,540,066.60	78,571.20
Percentage of net debt to total assets	82.7	35.9	20.7	25.2	44.1

"A"—Continued

Hydro Municipalities as at December 31, 1930

ONTARIO

Apple Hill P.V.	Athens 602	Belleville 13,267	Bloomfield 540	Brighton 1,311	Brockville 9,191	Cardinal 1,284	Carleton Place 4,293
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
169.06	....	....	....	....	27,994.53	....	6,255.32
....	....	2,343.65	410.00	....	261.80	....	2,471.63
2,845.84	13,789.18	98,808.89	9,068.28	13,766.21	75,919.39	9,130.55	37,227.41
....	....	....	....	....	....	....	....
1,288.37	1,724.61	20,854.47	1,085.36	2,839.98	31,249.47	1,010.89	9,112.97
885.15	2,193.51	50,324.47	2,628.20	5,936.87	39,290.12	1,387.12	14,978.66
421.12	698.90	15,722.65	904.70	809.08	20,174.12	377.93	6,379.68
....	....	....	....	....	....	....	....
210.33	1,011.61	5,055.87	1,403.42	191.67	3,065.19	661.96	4,188.44
....	....	....	....	....	54,682.45	....	....
709.55	....	....	....	....	4,811.17	3,474.80	5,293.19
6,529.42	19,417.81	193,110.00	15,499.96	23,543.81	257,448.24	16,043.25	85,907.30
....	1,451.51	28,847.43	5,094.21	992.59	22,028.79	1,016.70	1,405.01
....	....	....	....	....	135,000.00	....	11,000.00
173.41	297.89	18,466.16	480.85	2,530.08	12,472.78	....	5,849.28
....	....	7,916.54	....	4,114.25	2,514.80	....	859.94
....	....	....	....	....	63,287.07	....	
1,130.13	962.76	21,957.90	1,160.13	1,030.07	61,515.00	106.78	25,408.63
....	....	....	....	....	....	....	....
7,832.96	22,129.97	270,298.03	22,235.15	32,210.80	554,266.68	17,166.73	130,430.16
450.37	....	....	....	....	....	....	....
8,283.33	22,129.97	270,298.03	22,235.15	32,210.80	554,266.68	17,166.73	130,430.16
4,209.90	13,174.89	120,000.00	8,346.34	25,000,00	89,633.06	15,000.00	50,469.16
108.20	4,194.30	....	....	1,263.67	12,859.87	1,760.88	....
51.38	....	....	....	....	....	....	....
....	....	4,377.36	....	81.00	13.00	....	532.50
4,369.48	17,369.19	124,377.36	8,346.34	26,344.67	102,505.93	16,760.88	51,001.66
1,130.13	962.76	21,957.90	1,160.13	1,030.07	61,515.00	106.78	25,408.63
993.62	708.00	6,105.75	3,192.18	608.00	50,394.48	100.00	6,183.65
....	....	460.00	....	....	....	....	....
2,123.75	1,670.76	28,523.65	4,352.31	1,638.07	111,909.48	206.78	31,592.28
1,790.10	825.11	56,000.00	2,853.66	....	137,024.48	....	15,530.84
....	....		....	....	63,287.07	....	....
....	2,264.91	61,397.02	6,682.84	4,228.06	139,539.72	199.07	32,305.38
1,790.10	3,090.02	117,397.02	9,536.50	4,228.06	339,851.27	199.07	47,836.22
8,283.33	22,129.97	270,298.03	22,235.15	32,210.80	554,266.68	17,166.73	130,430.16
65.3	82.1	50.1	39.6	84.5	9.1	98.2	48.6

STATEMENT

Balance Sheets of Electrical Departments of

EASTERN ONTARIO SYSTEM—Continued

Municipality	Chesterville	Finch	Havelock	Kemptville	Kingston
Population	965	377	1,421	1,298	21,616
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	250.00	....	....	....	184,945.77
Substation equipment	....	....	572.90	....	44,473.79
Distribution system, overhead	7,682.98	7,298.41	19,596.50	18,916.39	160,594.05
Distribution system, underground	....	....	....	....	117,934.52
Line transformers	2,993.20	1,393.35	2,054.41	4,535.19	54,539.94
Meters	3,774.53	1,495.78	5,255.65	5,752.89	92,095.49
Street light equipment, regular	509.58	335.50	1,811.18	1,063.16	14,211.68
Street light equipment, ornamental	....	....	....	....	52,548.89
Miscellaneous construction expense	610.68	23.24	4,686.53	5,715.58	50,385.78
Steam or hydraulic plant	....	....	....	....	14,386.30
Old plant	....	....	2,420.45	....	....
Total plant	15,820.97	10,546.28	36,397.62	35,983.21	786,116.21
Bank and cash balance	11,401.11	923.03	4,236.80	3,416.23	25,896.32
Securities and investments	4,000.00	....	2,500.00	18,000.00	61,175.00
Accounts receivable	499.78	73.96	488.23	3,991.75	23,150.63
Inventories	679.17	....	....	456.79	11,859.27
Sinking fund on local debentures	....	....	....	....	96,028.72
Equity in H-E.P.C. systems	12,969.45	924.79	2,686.16	6,076.09	....
Other assets	....	....	....	....	....
Total assets	45,370.48	12,468.06	46,308.81	67,924.07	1,004,226.15
Deficit	....	....	....	....	....
Total	45,370.48	12,468.06	46,308.81	67,924.07	1,004,226.15
LIABILITIES					
Debenture balance	2,593.33	6,394.19	21,468.54	20,831.98	212,254.00
Accounts payable	145.13	478.87	117.03	1,835.55	....
Bank overdraft	....	....	....	....	....
Other liabilities	....	....	....	....	115.00
Total liabilities	2,738.46	6,873.06	21,585.57	22,667.53	212,369.00
RESERVES					
For equity in H-E.P.C. systems	12,969.45	924.79	2,668.16	6,076.09	....
For depreciation	6,247.04	418.00	4,887.65	4,732.60	82,129.42
Other reserves	....	....	....	....	44,121.54
Total reserves	19,216.49	1,342.79	7,573.81	10,808.69	126,250.96
SURPLUS					
Debentures paid	3,906.67	605.81	11,431.46	4,168.02	99,645.99
Local sinking fund	....	....	....	....	96,028.72
Additional operating surplus	19,508.86	3,646.40	5,717.97	30,279.83	469,931.48
Total surplus	23,415.53	4,252.21	17,149.43	34,447.85	665,606.19
Total liabilities, reserves and surplus	45,370.48	12,468.06	46,308.81	67,924.07	1,004,226.15
Percentage of net debt to total assets	8.5	59.5	49.5	36.7	12.8

"A"—Continued

Hydro Municipalities as at December 31, 1930

Lakefield 1,423	Lanark 581	Lancaster 560	Lindsay 7,056	Madoc 1,067	Marmora 1,023	Martin-town P.V.	Maxville 746
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
214.79	....	....	10,273.28	100.00	....	126.15	....
....	....	....	3,176.56	....	....	....	407.79
21,020.06	5,853.60	6,264.04	66,853.50	6,581.67	12,573.09	2,700.00	11,338.49
....	....	....	....	....	....	....	....
4,508.78	898.05	962.35	17,541.05	2,010.00	2,184.64	690.33	1,339.45
7,038.05	1,575.54	1,455.88	29,940.87	4,429.06	3,305.52	773.12	2,245.99
1,831.52	682.38	650.65	10,079.87	1,500.00	1,088.59	335.26	1,582.34
....	....	....	....	....	....	....	....
3,379.54	321.60	1,068.55	2,136.73	8.10	2,000.91	653.27	2,467.30
....	....	....	....	....	....	....	....
3,445.25	....	....	....	....	573.62	....	....
41,437.99	9,331.17	10,401.47	140,001.86	14,628.83	21,726.37	5,278.13	19,381.36
7,169.86	620.22	1,752.92	11,943.29	1,870.47	3,349.22	918.20	....
11,503.40	1,982.05	....	40,000.00	....	920.50	1,000.00	....
2,097.97	736.69	....	2,240.27	2,217.33	299.18	322.62	354.50
....	....	....	693.21	....	....	....	....
....	....	....	....	....	....	....	....
1,883.15	1,950.47	2,736.92	14,841.22	553.64	915.95	698.06	3,341.22
....	....	....	100.00	....	....	....	....
64,092.37	14,620.60	14,891.31	209,819.85	19,270.27	27,211.22	8,217.01	23,077.08
....	....	8,225.95	....	....	....	....	....
64,092.37	14,620.60	23,117.26	209,819.85	19,270.27	27,211.22	8,217.01	23,077.08
28,265.11	4,749.96	5,312.28	121,940.36	2,242.73	10,074.74	3,850.15	10,091.90
1,174.28	....	8,179.16	....	1,688.31	28.43	8.17	....
....	....	....	....	....	....	....	465.87
330.59	....	526.31	1,470.20	....	10.00	3.00	30.00
29,769.98	4,749.96	14,017.75	123,410.56	3,931.04	10,113.17	3,861.32	10,587.77
1,883.15	1,950.47	2,736.92	14,841.22	553.64	915.95	698.06	3,341.22
7,180.30	1,168.10	1,704.45	8,177.60	605.00	3,048.17	852.60	2,586.81
....	....	....	....	....	....	....	....
9,063.45	3,118.57	4,441.37	23,018.82	1,158.64	3,964.12	1,550.66	5,928.03
5,234.89	2,811.51	4,658.14	8,059.64	11,757.27	7,591.37	2,149.85	5,908.10
....	....	....	....	....	....	....	....
20,024.05	3,940.56	....	55,330.83	2,423.32	5,542.56	655.18	653.18
25,258.94	6,752.07	4,658.14	63,390.47	14,180.59	13,133.93	2,805.03	6,561.28
64,092.37	14,620.60	23,117.26	209,819.85	19,270.27	27,211.22	8,217.01	23,077.08
47.9	37.5	115.3	63.3	21.0	38.4	51.4	53.6

STATEMENT

Balance Sheets of Electrical Departments of

EASTERN ONTARIO SYSTEM—Continued

Municipality	Napanee	Norwood	Omemee	Oshawa	Ottawa
Population	2,990	764	481	24,194	122,731
ASSETS	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings				4,650.00	230,519.98
Substation equipment		457.53	360.32	1,206.00	564,396.95
Distribution system, overhead	35,893.25	23,152.45	10,654.21	191,276.28	657,027.86
Distribution system, underground					187,863.51
Line transformers	8,045.65	4,462.72	2,647.47	39,811.84	266,390.89
Meters	15,145.01	5,062.44	2,399.54	100,289.28	256,304.30
Street light equipment, regular	3,463.96	1,848.52	497.77	14,919.94	82,422.49
Street light equipment, ornamental					29,978.05
Miscellaneous construction expense	3,448.61	4,093.56	1,540.92	8,829.57	34,232.85
Steam or hydraulic plant					
Old plant	1,080.75	2,447.51		8,831.65	
Total plant	67,077.23	41,524.73	18,100.23	369,814.56	2,309,136.88
Bank and cash balance	3,008.30	3,995.89	101.91	73,862.59	1,458.70
Securities and investments		4,000.00			153,000.00
Accounts receivable	15,897.78	225.97	107.81	60,387.25	79,365.45
Inventories	5,365.01			9,868.27	26,688.16
Sinking fund on local debentures					523,988.44
Equity in H-E.P.C. systems	4,018.84	1,209.91		81,657.92	9,694.63
Other assets					
Total assets	95,367.16	50,956.50	18,309.95	595,590.59	3,103,332.26
Deficit					
Total	95,367.16	50,956.50	18,309.95	595,590.59	3,103,332.26
LIABILITIES					
Debenture balance	70,000.00	30,668.62	6,157.92	300,374.35	942,421.16
Accounts payable	3,377.83	773.01		40,286.09	34,001.13
Bank overdraft					122,682.49
Other liabilities	439.10	228.20		11,926.04	
Total liabilities	73,816.93	31,669.83	6,157.92	352,586.48	1,099,104.78
RESERVES					
For equity in H-E.P.C. systems	4,018.84	1,209.91		81,657.92	9,694.63
For depreciation	1,640.00	6,311.72	4,548.90	14,215.00	762,401.86
Other reserves					102,891.47
Total reserves	5,658.84	7,521.63	4,548.90	95,872.92	874,987.96
SURPLUS					
Debentures paid		6,431.38	5,842.08	9,625.65	37,578.84
Local sinking fund					523,988.44
Additional operating surplus	15,891.39	5,333.66	1,761.05	137,505.54	567,672.24
Total surplus	15,891.39	11,765.04	7,603.13	147,131.19	1,129,239.52
Total liabilities, reserves and surplus	95,367.16	50,956.50	18,309.95	595,590.59	3,103,332.26
Percentage of net debt to total assets	80.8	63.7	33.6	68.6	22.4

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*Fifteen months' operation.

"A"—Continued

Hydro Municipalities as at December 31, 1930

Perth 3,698	Peterboro' 22,012	Picton 3,315	Port Hope 4,600*	Prescott 2,757	Richmond 362	Russell P.V.	Smiths Falls 7,178
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
6,600.50	75,202.75	1,405.07	....	2,761.54	....	....	19,928.85
3,492.82	101,402.92	2,004.66	....	....	....	....	4,845.66
40,829.07	171,259.36	33,333.21	47,299.94	37,528.22	5,927.17	7,704.80	84,511.68
....	....	....	....	....	....	....	....
20,314.94	93,468.56	9,288.55	11,399.08	11,905.52	769.40	1,382.48	23,512.75
19,873.15	86,516.87	15,220.18	18,381.68	17,426.57	1,038.91	1,458.18	31,082.61
3,939.32	71,775.07	4,131.66	2,579.81	1,630.21	161.29	499.49	9,239.03
....	....	....	....	....	....	....	....
5,661.80	58,390.66	2,988.96	621.98	1,887.62	612.67	1,191.88	6,797.73
....	....	....	....	....	....	....	....
23,610.69	17,410.71	3,105.28	....	11,808.35	....	....	59,817.97
124,322.29	675,426.90	71,477.57	80,282.49	84,948.03	8,509.44	12,236.83	239,736.28
13,259.26	12,497.65	6,631.58	8,301.62	4,056.77	47.43	971.23	6,964.86
20,000.00	....	21,000.00	....	3,000.00	....	....	32,000.00
7,850.59	48,254.19	6,826.88	3,537.13	1,268.65	27.04	597.25	12,336.25
6,306.98	7,242.26	5,330.44	1,272.19	....	....	....	203.10
....	161,106.23	....	....	....	....	....	....
21,085.72	53,205.13	8,544.41	5,160.64	16,336.82	260.58	1,760.02	34,205.90
....	....	....	....	....	....	....	....
192,824.84	957,732.36	119,810.88	98,554.07	109,610.27	8,844.49	15,565.33	325,446.39
....	....	....	....	....	....	....	....
192,824.84	957,732.36	119,810.88	98,554.07	109,610.27	8,844.49	15,565.33	325,446.39
60,681.29	527,920.00	....	64,967.46	475.86	6,136.00	8,399.37	104,445.72
....	23,326.29	3,297.60	1,542.98	2,412.52	770.67	617.29	....
....	....	....	....	....	....	....	....
1,437.90	25.00	620.00	2,597.41	....	....	....	....
62,119.19	551,271.29	3,917.60	69,107.85	2,888.38	6,906.67	90,016.66	104,445.72
21,085.72	53,205.13	8,544.41	5,160.64	16,336.82	260.58	1,760.02	34,205.90
26,797.90	77,582.50	10,255.40	2,080.00	25,487.02	314.00	915.00	46,519.67
....	7,260.20	996.33	....	....	....	....	....
47,883.62	138,047.83	19,796.14	7,240.64	41,823.84	574.58	2,675.02	80,725.57
47,718.71	....	5,730.32	14,032.54	23,503.48	364.00	1,600.63	93,179.28
....	161,106.23	....	....	....	....	....	....
35,103.32	107,307.01	90,366.82	8,173.04	41,394.57	999.24	2,273.02	47,095.82
82,822.03	268,413.24	96,097.14	22,205.58	64,898.05	1,363.24	3,873.65	140,275.10
192,824.84	957,732.36	119,810.88	98,554.07	109,610.27	8,844.49	15,565.33	325,446.39
36.1	52.5	3.5	74.0	3.1	80.5	65.3	35.9

STATEMENT

Balance Sheets of Electrical Departments of

EASTERN ONTARIO SYSTEM—Concluded

Municipality	Stirling	Wark-worth	Wellington	Whitby	Williams-burg
Population	879	P.V.	912	5,307	P.V.
Assets	$ c.	$ c.	$ c.	$ c.	$ c.
Lands and buildings	8,410.00	....	200.00	6,394.26	....
Substation equipment	7,137.02	....	615.00	33,987.78	....
Distribution system, overhead	4,603.67	5,368.18	14,454.57	43,747.69	1,658.07
Distribution system, underground	....	....	....	....	....
Line transformers	3,560.80	368.93	4,170.03	9,937.65	416.89
Meters	4,620.38	1,392.35	4,937.63	13,547.79	969.47
Street light equipment, regular	1,020.00	299.74	963.72	4,018.38	152.11
Street light equipment, ornamental	....	....	....	....	....
Miscellaneous construction expense	843.49	624.19	792.28	5,902.50	4.00
Steam or hydraulic plant	....	....	....	....	....
Old plant	....	3,618.02	2,477.92	1,340.13	....
Total plant	30,195.36	11,671.41	28,611.15	118,876.18	3,200.54
Bank and cash balance	2,676.11	809.69	1,403.51	....	944.90
Securities and investments	6,086.18	....	5,000.00	....	1,500.00
Accounts receivable	2,734.85	3,074.61	958.64	6,328.84	318.90
Inventories	1,384.98	....	....	198.54	....
Sinking fund on local debentures	....	....	....	....	....
Equity in H-E.P.C. systems	672.05	594.68	1,519.30	8,677.13	1,417.27
Other assets	....	....	....	....	....
Total assets	43,749.53	16,150.39	37,492.60	134,080.69	7,381.61
Deficit	....	....	....	....	....
Total	43,749.53	16,150.39	37,492.60	134,080.69	7,381.61
Liabilities					
Debenture balance	....	10,029.45	12,873.59	46,622.39	782.33
Accounts payable	1,182.09	....	3.57	12.71	....
Bank overdraft	....	....	....	319.06	....
Other liabilities	....	....	....	579.47	5.00
Total liabilities	1,182.09	10,029.45	12,877.16	47,533.63	787.33
Reserves					
For equity in H-E.P.C. systems	672.05	594.68	1,519.30	8,677.13	1,417.27
For depreciation	8,894.00	1,051.67	4,538.74	8,825.46	1,432.85
Other reserves	....	....	....	....	....
Total reserves	9,566.05	1,646.35	6,058.04	17,502.59	2,850.12
Surplus					
Debentures paid	10,000.00	970.55	4,126.41	29,990.11	1,967.67
Local sinking fund	....	....	....	....	....
Additional operating surplus	23,001.39	3,504.04	14,430.99	39,054.36	1,776.49
Total surplus	33,001.39	4,474.59	18,557.40	69,044.47	3,744.16
Total liabilities, reserves and surplus	43,749.53	16,150.39	37,492.60	134,080.69	7,381.61
Percentage of net debt to total assets	2.7	64.4	35.8	37.9	13.2

"A"—Concluded

Hydro Municipalities as at December 31, 1930

		THUNDER BAY SYSTEM				
Winchester 1,004	EASTERN ONTARIO SYSTEM SUMMARY	Fort William 24,786	Nipigon P.V.	Port Arthur 19,362	THUNDER BAY SYSTEM SUMMARY	ALL SYSTEMS GRAND SUMMARY
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
299.85	586,903.70	48,927.62	215.03	124,581.04	173,723.69	7,936,974.31
....	774,024.78	115,284.78	....	125,034.22	240,319 00	19,485,056.28
9,038.27	2,061,229.88	125,768.69	11,504.29	518,582.60	655,855.58	19,220,326 48
....	305,798.03	....	....	....	....	4,932,189.05
2,192.41	686,666.96	52,850.26	1,789.91	59,035.28	113,675.45	7,953,090.23
4,567.43	883,701.80	54,344.96	1,710.36	83,525.63	139,580.95	7,840,948.07
622.46	287,579.06	29,032.50	606.24	55,963.18	85,601.92	1,780,785.67
....	82,526.94	....	....	....	....	1,520,891.01
343 94	233,694.44	5,837.05	77.03	32,393.45	38,307.53	3,996,747.77
....	69,068.75	....	....	....	....	139,587.28
1,100.00	161,843.90	293,762.46	....	348,112.93	641,875.39	5,322,690.14
18,164.36	6,133,038.24	725,808.32	15,902.86	1,347,228.33	2,088,939.51	80,129,286.29
1,765.64	284,930.29	36,666.30	2,255.91	97,528.89	136,451.10	2,722,250.12
8,000.00	540,667.13	....	....	609,786.86	609,786.86	1,909,439.11
981.99	331,311.35	22,415.00	648.66	107,305.68	130,369.34	4,481,006.92
1,838.20	94,792.10	....	....	29,764.71	29,764.71	1,242,994.51
....	844,410.46	128,171.66	....	242,060.22	370,231.88	8,396,255.47
7,460.07	432,399.56	123,494.54	681.22	439,017.04	563,192.80	17,346,372 44
....	100.00	436.00	....	784.78	1,220.78	173,030.05
38,210.26	8,661,649.13	1,036,991.82	19,488.65	2,873,476.51	3,929,956.98	116,400,634.91
....	8,676.32	....	....	....	....	61,395.16
38,210.26	8,670,325.45	1,036,991.82	19,488.65	2,873,476.51	3,929,956.98	116,462,030.07
7,194.36	3,003,190.91	415,500.00	8,103.78	418,100.00	841,703.78	45,091,808.06
841.02	148,361.33	....	203.23	65,955.65	66,158.88	3,001,186.21
....	123,518.80	....	....	....	....	405,663.14
....	25,488.06	8,012.00	....	....	8,012.00	1,642,771.59
8,035.38	3,300,559.10	423,512.00	8,307.01	484,055.65	915,874.66	50,141,429.00
7,460.07	432,399.56	123,494.54	681.22	439,017.04	563,192.80	17,346,372.44
5,817.91	1,209,441.08	43,811.24	1,659.00	285,873.41	331,343.65	12,885,387.51
....	156,054.79	2,740.80	....	47,895.60	50,636.40	1,574,655.74
13,277.98	1,797,895.43	170,046.58	2,340.22	772,786.05	945,172.85	31,806,415.69
3,455.64	699,065.62	252,150.00	1,896.22	218,000.00	472,046.22	10,728,279.15
....	844,410.46	128,171.66	....	242,060.22	370,231.88	8,396,255.47
13,441.26	2,028,394.84	63,111.58	6,945.20	1,156,574.59	2,266,631.37	15,389,650.76
16,896.90	3,571,870.92	443,433.24	8,841.42	1,616,634.81	2,068,909.47	34,514,185.38
38,210.26	8,670,325.45	1,036,991.82	19,488.65	2,873,476.51	3,929,956.98	116,462,030.07
26.1	33.3	37.6	44.2	11.0	18.2	46.0

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM

Municipality	Acton	Agincourt	Ailsa Craig	Alvinston	Amherstburg
Population	1,903	P.V.	500	612	2,987
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	10,092.08	4,277 53	2,890.81	4,487.57	19,760.34
Commercial light service	3,309.90	992.41	1,446.97	2,658.11	7,543.41
Commercial power service	15,716.59	1,410.88	1,441.67	784.31	7,407.38
Municipal power	661.42			299.60	
Street lighting	1,758.00	676.00	568.00	1,854.00	1,972.38
Merchandise	250.04			16.47	
Miscellaneous	96.96		205.36	90.00	272.20
Total earnings	31,884.99	7,356.82	6,552.81	10,190.06	36,955.71
EXPENSES					
Power purchased	23,317.48	4,674.23	4,644.89	7,536.31	21,254.66
Substation operation					
Substation maintenance					
Distribution system, operation and maintenance	2,084.43	69.75	126.37	163.23	2,423.38
Line transformer maintenance	14.88				44.13
Meter maintenance	49.49		5.02		74.06
Consumers' premises expenses					
Street lighting, operation and maintenance	238.99	50.88	35.45	46.71	550.72
Promotion of business					
Billing and collecting			275.79	262.27	1,956.39
General office, salaries and expenses	1,140.10	372.61	64.75	259.15	691.96
Undistributed expenses	288.06			31.93	366.94
Truck operation and maintenance	291.35				413.74
Interest	123.59	297.60	68.13	900.04	1,650.10
Sinking fund and principal payments on debentures	561.13	468.94	230.30	892.80	1,111.32
Total expenses	28,109.50	5,934.01	5,450 70	10,092.44	30,537.40
Gross surplus	3,775.49	1,422.81	1,102.11	97.62	6,418.31
Gross loss					
Depreciation	1,207.00	329.00	455.00	534.00	1,638.00
Net surplus	2,568.49	1,093.81	647.11		4,780.31
Net loss				436.38	
NUMBER OF CONSUMERS					
Domestic service	490	136	134	158	640
Commercial light service	81	20	38	59	136
Power service	20	2	2	3	17
Total	591	158	174	220	793

"B"

Hydro Municipalities for Year Ended December 31, 1930

Ancaster Twp. 4,134	Arkona 371	Aylmer 1,992	Ayr 781	Baden P.V.	Barton Twp. 1,597	Beachville P.V.	Belle River 768
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
7,851.58	2,356.15	10,059.72	4,290.39	3,389.53	1,943.39	2,914.18	4,164.62
1,528.44	1,345.52	7,563.07	1,623.11	1,250.29	108.22	889.85	1,611.39
446.29	987.70	5,028.21	1,042.10	5,614.67	800 29	8,714.65	424.23
....	....	760.56	....	....	....	....	746.76
671.83	960.00	2,225.00	988.00	520.00	252.00	528.00	825.00
....	....	....	....	....	....	26.70	....
....	55.27	1,175.90	....	79.78	....	476.29	158.20
10.498.14	5,704.64	26,812.46	7,943.60	10,854.27	3,103.90	13,549.67	7,930.20
5,833.44	3,696.21	15,106.78	5,620.83	8,607.46	1,956.56	8,605.49	4,490.45
....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....
2,081.90	40.26	2,438.03	721.03	444.50	172.00	170.66	128.32
21.16	....	44.98	....	....	....	....	....
25.90	....	75	20.77	....	....	10.80	12.75
....	....	....	....	....	....	....	....
77.31	59.30	190.86	103.12	148.85	33.45	76.12	93.11
....	....	....	....	....	....	....	....
....	253.89	788.37	326.06	386.82	....	410.75	407.08
1,579.00	164.30	899.96	26.45	90.90	346.50	17.90	170.50
....	....	288.99	45.84	46.73	....	36.00	57.11
....	....	....	....	....	....	....	....
423.60	651.32	1,417.65	396.13	144.15	344.80	165.91	413.32
244.41	479.64	1,090.27	302.36	181.11	564.41	192.88	327.78
10,286.72	5,344.92	22,266.64	7,562.59	10,050.52	3,417.72	9,686.51	6,100.42
211.42	359.72	4,545.82	381.01	803.75	....	3,863.16	1,829.78
....	....	....	....	....	313.82	....	....
843.00	280.00	1,266.00	482.00	326.00	285.00	552.00	533.00
....	79.72	3,279.82	....	477.75	....	3,311 16	1,296.78
631.58	....	....	100.99	....	598.82	....	....
252	114	609	189	125	70	123	181
37	36	129	47	30	5	27	36
5	4	13	5	3	2	4	4
294	154	751	241	158	77	154	221

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Blenheim	Blyth	Bolton	Bothwell	Brampton
Population	1,631	618	600	603	4,993
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	8,021.89	3,395.84	3,023.46	2,791.61	34,345.65
Commercial light service	5,929.97	1,577.54	820.47	1,382.60	15,398.20
Commercial power service	4,021.41	814.42	2,372.35	783.77	14,565.48
Municipal power	742.73	....	....	194.21	1,827.70
Street lighting	2,330.00	1,300.00	943.27	1,292.92	5,225.65
Merchandise	....	....	....	6.48	71.80
Miscellaneous	106.50	15.81	195.69	689.34	388.37
Total earnings	21,152.50	7,103.61	7,355.24	7,140.93	71,822.85
EXPENSES					
Power purchased	13,019.66	4,494.73	4,730.10	4,295.13	51,351.35
Substation operation	....	....	....	....	38.99
Substation maintenance	....	....	....	....	403.14
Distribution system, operation and maintenance	1,861.48	437.33	1,045.87	199.58	2,355.55
Line transformer maintenance	124.00	....	....	....	289.44
Meter maintenance	150.66	....	....	....	226.65
Consumers' premises expenses	....	....	....	....	....
Street lighting, operation and maintenance	392.91	66.65	62.02	99.15	427.85
Promotion of business	....	....	....	....	....
Billing and collecting	869.25	....	....	213.48	1,552.03
General office, salaries and expenses	620.89	202.55	376.27	200.05	2,712.43
Undistributed expenses	227.19	....	28.77	....	236.89
Truck operation and maintenance	....	....	....	....	321.61
Interest	613.38	688.29	399.29	221.20	656.24
Sinking fund and principal payments on debentures	400.34	842.77	460.78	142.99	3,689.11
Total expenses	18,279.76	6,732.32	7,103.10	5,371.58	64,261.28
Gross surplus	2,872.74	371.29	252.14	1,769.35	7,561.57
Gross loss	....	....	....	....	....
Depreciation	1,142.00	375.00	248.00	472.00	4,055.00
Net surplus	1,730.74	....	4.14	1,297.35	3,506.57
Net loss	....	3.71	....	....	....
NUMBER OF CONSUMERS					
Domestic service	484	153	144	163	1,324
Commercial light service	118	46	40	46	227
Power service	14	4	9	5	54
Total	616	203	193	214	1,605

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1930

Brantford 29,287	Brantford Twp. 7,053	Bridgeport P.V.	Brigden P.V.	Brussels 706	Burford P.V.	Burgessville P.V.	Caledonia 1,475
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
160,236.81	19,839.70	3,483.86	2,259.14	4,895.77	4,305.72	1,221.09	4,441.06
44,198.28	4,059.12	983.98	1,683.04	2,289.87	972.40	650.21	4,601.58
107,895.73	2,667.19	184.65	1,742.06	512.37	1,855.05	1,060.27	2,587.11
26,039.62	....	....	....	....	....	....	....
33,977.05	4,563.00	570.00	1,098.42	1,272.00	813.00	299.00	1,634.88
....	....	....	....	....	....	....	....
3,355.76	842.27	....	114.21	7.34	149.26	....	59.80
375,703.25	31,971.28	5,222.49	6,896.87	8,977.35	8,095.43	3,230.57	13,324.43
253,139.26	15,603.38	3,445.79	5,238.01	6,033.00	4,520.51	2,397.34	8,056.50
5,322.60	....	....	....	....	....	....	....
1,047.85	....	....	....	....	....	....	....
6,007.51	2,556.03	101.45	199.99	445.44	167.10	31.72	332.64
564.20	25.61	....	....	....	....	....	....
540.72	396.10	5.13	....	....	35.35	....	65.60
402.36	....	....	....	....	....	....	....
4,227.67	771.97	99.84	47.61	70.83	63.73	....	166.49
1,433.94	....	....	....	....	....	....	....
7,738.67	1,376.16	....	236.61	....	431.12	24.05	659.53
8,636.15	1,277.46	392.97	245.68	499.76	153.67	15.33	245.69
5,107.64	85.60	54.73	....	....	30.55	14.72	81.92
2,692.97	....	....	....	....	....	....	....
21,763.56	1,828.37	598.53	107.72	926.84	86.85	54.03	171.32
22,971.00	2,917.64	....	230.09	830.44	314.36	215.12	201.90
341,596.10	26,838.32	4,698.44	6,305.71	8,806.31	5,803.24	2,752.31	9,981.59
34,107.15	5,132.96	524.05	591.16	171.04	2,292.19	478.26	3,342.84
....	....	....	....	....	....	....	....
20,199.00	2,241.00	435.00	311.00	500.00	415.00	169.00	632.00
13,908.15	2,891.96	89.05	280.16	....	1,877.19	309.26	2,710.84
....	....	....	....	328.96	....	....	....
6,426	750	101	107	195	184	55	275
736	42	16	38	60	35	23	87
111	6	3	6	2	4	2	8
7,273	798	120	151	257	223	80	370

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Campbellville	Cayuga	Chatham	Chippawa	Clifford
Population	P.V.	671	16,104	1,171	461
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	1,244.91	2,437.21	77,814.48	6,664.61	1,998.00
Commercial light service	443.05	2,162.13	69,173.38	1,504.38	1,378.42
Commercial power service		1,381.13	66,070.60	587.72	105.25
Municipal power			4,750.36	1,362.48	
Street lighting	456.00	1,539.96	16,102.76	1,036.00	789.83
Merchandise			691.43		
Miscellaneous	79.92		1,414.21		61.41
Total earnings	2,223.88	7,520.43	236,017.22	11,155.19	4,332.91
EXPENSES					
Power purchased	1,367.92	3,745.42	124,679.73	6,224.59	3,106.98
Substation operation			9,621.43		
Substation maintenance			3,892.86		
Distribution system, operation and maintenance	26.25	116.85	7,572.65	575.41	25.41
Line transformer maintenance		6.15	1,778.83	34.50	
Meter maintenance		41.65	5,988.98	298.80	20.17
Consumers' premises expenses			36.26		
Street lighting, operation and maintenance		26.57	8,863.93	443.47	41.06
Promotion of business					
Billing and collecting		449.17	7,407.24		384.00
General office, salaries and expenses	102.69	69.58	15,722.23	903.39	19.28
Undistributed expenses		14.01	5,172.52	83.63	24.51
Truck operation and maintenance			1,847.48		
Interest	267.46	926.12	13,092.05	586.44	406.11
Sinking fund and principal payments on debentures	215.94	749.66	9,295.95	618.71	144.35
Total expenses	1,980.26	6,145.18	214,972.14	9,768.94	4,171.87
Gross surplus	243.62	1,375.25	21,045.08	1,386.25	161.04
Gross loss					
Depreciation	101.00	507.00	13,668.00	758.00	231.00
Net surplus	142.62	868.25	7,377.08	628.25	
Net loss					69.96
NUMBER OF CONSUMERS					
Domestic service	40	94	3,815	280	95
Commercial light service	8	48	701	43	38
Power service		3	110	7	1
Total	48	145	4,626	330	134

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1930

Clinton	Comber	Cottam	Courtright	Dashwood	Delaware	Dorchester	Drayton
1,937	P.V.	P.V.	394	P.V.	P.V.	P.V.	508
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
11,404.08	2,592.84	2,585.18	1,943.52	1,673.53	1,275.24	2,524.25	2,881.87
5,603.11	2,266.22	1,339.16	1,023.31	988.10	686.33	888.77	1,915.97
4,527.15	3,221.99	360.00	....	1,265.06	....	552.98	1,285.03
927.85	....	....	389.88	....	....	....	....
1,968.01	732.00	403.00	774.00	492.00	252.00	587.16	825.00
272.50	....	....	....	....	....	....	....
621.77	78.04	5.85	9.09	5.06	142.49	112.13	288.44
25,324.47	8,891.09	4,693.19	4,139.80	4,423.75	2,356.06	4,665.29	7,196.31
14,508.56	5,954.65	2,469.04	3,045.65	3,000.03	1,110.51	2,545.70	4,569.44
204.33	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....
295.11	249.71	65.93	156.47	185.89	13.40	52.18	76.79
18.81	....	72.50	....	....	....	....	....
42.91	....	6.00	....	....	....	....	73.56
....	....	....	....	....	....	....	....
260.73	27.38	119.56	50.00	35.53	18.36	40.45	42.93
....	....	....	....	....	....	....	....
905.04	300.00	....	....	....	....	112.06	....
1,498.92	393.01	449.20	221.36	69.91	131.28	14.09	407.77
567.83	15.02	....	....	....	....	13.67	....
205.10	....	....	....	....	....	....	....
2,045.59	188.32	450.65	345.33	141.50	135.03	154.07	449.37
1,305.66	404.63	303.10	498.28	94.10	125.18	128.11	241.69
21,858.59	7,532.72	3,935.98	4,317.09	3,526.96	1,533.76	3,060.33	5,861.55
3,465.88	1,358.37	757.21	....	896.79	822.30	1,604.96	1,334.76
....	....	....	177.29	....	....	....	....
654.00	386.00	297.00	192.00	179.00	148.00	332.00	450.00
2,811.88	972.37	460.21	....	717.79	674.30	1,272.96	884.76
....	....	....	369.29	....	....	....	....
514	100	105	71	67	48	130	154
120	46	26	23	25	19	31	61
15	2	1	1	1	....	2	5
649	148	132	95	93	67	163	220

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Dresden	Drumbo	Dublin	Dundas	Dunnville
Population	1,465	P.V.	P.V.	5,052	3,450
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	5,515.99	2,057.72	1,261.72	21,023.03	11,151.21
Commercial light service	4,819.53	768.16	926.70	11,812.17	11,238.83
Commercial power service	5,346.34	841.23	516.59	22,602.48	11,607.96
Municipal power	467.30	....	....	441.96	2,899.28
Street lighting	1,865.55	538.00	750.00	3,592.31	4,160.38
Merchandise	128.72	....	....	550.01	....
Miscellaneous	187.39	....	....	649.48	616.77
Total earnings	18,330.82	4,205.11	3,455.01	60,671.44	41,674.43
EXPENSES					
Power purchased	12,010.90	2,976.27	2,364.79	37,389.41	22,123.90
Substation operation	....	....	....	....	....
Substation maintenance	....	....	....	122 22	....
Distribution system, operation and maintenance	631.40	433.47	39.94	6,027.33	1,542.24
Line transformer maintenance	....	....	....	189.51	98.14
Meter maintenance	....	....	....	595.78	212.33
Consumers' premises expenses	....	....	....	....	....
Street lighting, operation and maintenance	25.20	55.82	87.01	538.40	284.96
Promotion of business	....	....	....	....	....
Billing and collecting	626.30	165.39	157.50	1,278.53	....
General office, salaries and expenses	586.80	47.11	49.00	1,957.36	2,472.14
Undistributed expenses	136.57	15.05	5.71	1,002.01	321.97
Truck operation and maintenance	....	....	....	897.14	129.82
Interest	240.29	121.96	189.81	1,690.40	3,779.82
Sinking fund and principal payments on debentures	1,132.00	140.81	375.37	1,783.66	2,099.01
Total expenses	15,389.46	3,955.88	3,269.13	53,471.75	33,064.33
Gross surplus	2,941.36	249.23	185.88	7,199.69	8,610.10
Gross loss	....	....	....	....	....
Depreciation	814.00	91.00	238.00	3,509.00	2,859.00
Net surplus	2,127.36	158.23	....	3,690.69	5,751.10
Net loss	....	....	52.12	....	....
NUMBER OF CONSUMERS					
Domestic service	349	83	38	1,166	604
Commercial light service	117	24	27	177	188
Power service	14	2	3	42	29
Total	480	109	68	1,385	821

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1930

Dutton 805	East Windsor 15,105	Elmira 2,795	Elora 1,244	Embro 424	Erieau 210	Erie Beach 21	Essex 1,732
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
3,408.09	83,936.97	15,917.45	6,667.85	2,599.74	3,176.24	1,229.61	8,641.52
2,774.14	25,818.99	6,918.35	3,648.42	1,720.28	866.44	210.56	6,049.65
3,148.57	68,914.40	13,120.18	8,391.00	1,460.86	550.42	....	6,450.93
....	....	906.58	....	....	....	....	1,513.02
943.20	8,134.67	1,835.17	1,652.00	702.00	378.00	....	2,159.35
35.54	....	43.83	....	....	....	....	....
244.80	1,442.08	538.86	220.79	....	....	....	494.30
10,554.34	188,247.11	39,280.42	20,580.06	6,482.88	4,971.10	1,440.17	25,308.77
7,168.94	109,481.88	29,957.00	15,252.21	3,756.59	3,062.56	837.11	11,230.81
....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....
96.87	5,853.07	1,867.89	2,242.40	210.78	345.76	149.02	1,086.07
12.05	995.33	108.91	....	....	10.55	....	125.48
49.23	4,547.88	141.06	110.65	....	42.05	....	16.95
....	2,297.67	....	....	....	....	....	....
92.75	3,546.35	208.61	116.60	81.00	76.50	....	29.43
....	....	....	....	....	....	....	....
684.05	9,845.95	974.82	....	175.32	370.42	....	332.79
338.00	3,463.43	534.31	1,281.64	30.50	54.07	172.05	2,921.03
54.12	4,046.33	916.70	233.23	35.17	18.75	....	271.39
....	....	225.73	209.52	....	....	....	419.90
364.03	6,935.64	1,082.45	330.62	302.06	355.10	186.34	1,251.70
285.98	5,679.78	904.66	629.94	344.45	272.85	106.83	405.97
9,146.02	156,693.31	36,922.14	20,406.81	4,935.67	4,608.61	1,451.35	18,091.52
1,408.32	31,553.80	2,358.28	173.25	1,547.21	362.49	....	7,217.25
....	....	....	....	....	....	11.18	....
187.00	7,955.00	1,796.00	941.00	412.00	260.00	69.00	1,360.00
1,221.32	23,598.80	562.28	....	1,135.21	102.49	....	5,857.25
....	....	....	767.75	....	....	80.18	....
204	2,817	538	305	95	116	61	447
70	304	126	77	47	11	2	118
7	43	21	3	3	2	....	20
281	3,164	685	385	145	129	63	585

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality Population	Etobicoke Twp. 14,212	Exeter 1,615	Fergus 2,286	Fonthill 763	Forest 1,415
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	95,905.81	10,769.94	14,022.53	4,784.55	10,184.51
Commercial light service	22,906.22	5,132.00	6,214.30	832.97	4,621.17
Commercial power service	14,359.04	5,554.55	11,069.44	325.12	4,177.56
Municipal power	2,185.58	506.22	....	262.74	879.69
Street lighting	15,344.42	1,899.00	2,587.00	1,138.00	2,270.00
Merchandise	....	149.04	....	....	347.91
Miscellaneous	152.80	671.04	32.72	1.50	1,313.22
Total earnings	150,853.87	24,681.79	33,925.99	7,344.88	23,794.06
EXPENSES					
Power purchased	75,834.75	13,545.38	23,728.92	3,325.80	12,985.87
Substation operation	....	....	....	....	....
Substation maintenance	....	....	....	....	....
Distribution system, operation and maintenance	11,093.85	642.34	1,278.88	676.35	2,223.69
Line transformer maintenance	1,882.60	80.79	58.38	....	....
Meter maintenance	1,194.87	74.24	206.50	71.57	320.86
Consumers' premises expenses	....	....	....	....	....
Street lighting, operation and maintenance	2,412.15	364.87	376.75	40.36	413.54
Promotion of business	31.99	....	....	....	....
Billing and collecting	6,596.82	569.72	....	....	562.50
General office, salaries and expenses	5,440.91	2,808.13	1,766.85	518.99	1,145.88
Undistributed expenses	3,477.00	332.78	139.13	....	289.25
Truck operation and maintenance	2,498.20	544.23	370.77	....	406.78
Interest	13,246.52	589.36	1,610.91	1,120.16	1,299.84
Sinking fund and principal payments on debentures	9,572.58	829.69	2,399.91	872.29	900.00
Total expenses	133,282.24	20,381.53	31,937.00	6,625.52	20,548.21
Gross surplus	17,571.63	4,300.26	1,988.99	719.36	3,245.85
Gross loss	....	....	....	....	....
Depreciation	10,496.00	1,183.00	1,248.00	421.00	1,316.00
Net surplus	7,075.63	3,117.26	740.99	298.36	1,929.85
Net loss	....	....	....	....	....
NUMBER OF CONSUMERS					
Domestic service	3,653	441	599	209	450
Commercial light service	329	118	119	26	125
Power service	23	10	18	4	23
Total	4,005	569	736	239	598

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1930

Galt 13,236	George-town 1,992	Glencoe 759	Goderich 4,221	Granton P.V.	Guelph 19,857	Hagers-ville 1,246	Hamilton 134,566
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
105,465.02	12,790.62	5,420.70	25,187.65	1,656.60	100,184.50	4,597.80	798,848.99
43,460.78	5,556.57	3,407.26	12,508.69	1,025.42	45,272.62	4,472.92	190,689.83
79,763.81	20,408.46	1,825.76	14,398.04	987.58	98,220.57	27,059.41	870,253.13
3,597.14	750.35	1,315.09	3,052.87	....	20,919.49	....	76,322.76
21,746.50	2,096.75	1,934.00	3,782.50	370.00	20,422.07	1,200.00	99,935.12
613.51	35.01	18.89	718.70	....	1,005.10	54.81	....
3,294.53	689.71	25.73	57.71	106.12	3,294.55	573.70	18,773.34
257,941.29	42,327.47	13,947.43	59,706.16	4,145.72	289,318.90	37,958.64	2,054,823.17
169,652.74	32,356.99	8,726.14	40,588.51	2,939.35	197,004.93	26,982.72	1,408,285.24
4,930.72	....	....	3,499.32	....	2,862.26	....	31,096.88
456.42	....	....	....	....	....	....	21,021.97
942.32	1,746.02	178.03	2,401.34	74.45	3,929.54	2,392.29	35,629.48
22.39	....	....	140.12	....	2,053.73	8.63	8,542.96
1,640.77	179.52	....	77.39	....	3,005.73	106.72	13,800.99
....	....	....	....	....	....	....	8,881.58
3,339.17	139.68	187.43	510.01	30.10	6,979.02	190.18	11,796.62
950.02	....	....	....	....	....	....	14,789.05
2,884.89	....	569.57	652.80	124.78	6,573.61	757.50	37,179.89
4,961.48	2,863.69	466.18	2,582.57	36.88	9,386.33	504.15	56,809.01
5,139.42	409.19	149.18	636.58	15.30	966.58	161.25	35,436.93
490.43	619.12	....	339.02	....	1,678.97	588.41	....
21,043.00	791.01	695.19	2,753.00	169.56	4,255.60	227.95	135,873.22
17,128.60	642.65	835.82	2,038.47	100.07	4,093.30	322.87	134,485.54
233,582.37	39,747.87	11,807.54	56,219.13	3,490.49	242,789.60	32,242.67	1,953,629.36
24,358.92	2,579.60	2,139.89	3,487.03	655.23	46,529.30	5,715.97	101,193.81
....	....	....	....	....	....	....	....
19,657.09	1,691.00	787.00	4,412.00	197.00	12,501.00	913.00	67,674.02
4,701.83	888.60	1,352.89	....	458.23	34,028.30	4,802.97	33,519.79
....	....	....	924.97	....	....	....	....
3,450	637	219	1,184	79	5,000	300	32,309
498	130	79	216	31	715	106	3,564
116	24	6	21	1	136	15	855
4,064	791	304	1,421	111	5,851	421	36,728

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality	Harriston	Harrow	Hensall	Hespeler	Highgate
Population	1,274	P.V.	753	2,719	350
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	6,175.18	7,619.44	3,507.49	17,836.46	1,672.05
Commercial light service	3,783.85	4,149.56	1,816.45	5,550.67	812.20
Commercial power service	5,773.69	3,675.80	2,743.74	16,911.94	1,953.46
Municipal power	487.72	....	....	926.68	....
Street lighting	1,199.92	854.60	912.00	2,559.64	550.00
Merchandise	....	....	....	....	....
Miscellaneous	....	177.08	121.88	29.80	129.61
Total earnings	17,420.36	16,476.48	9,101.56	43,815.19	5,117.32
EXPENSES					
Power purchased	11,850.46	10,638.91	5,924.02	32,425.38	3,961.13
Substation operation	....	....	....	776.01	....
Substation maintenance	....	....	....	81.50	....
Distribution system, operation and maintenance	1,184.84	223.34	405.67	2,810.21	148.66
Line transformer maintenance	7.08	227.70	....	112.81	....
Meter maintenance	109.13	361.23	....	81.72	....
Consumers' premises expenses	....	....	....	....	....
Street lighting, operation and maintenance	145.95	188.92	85.27	434.20	39.07
Promotion of business	....	....	....	....	....
Billing and collecting	697.04	655.01	369.98	....	360.00
General office, salaries and expenses	162.50	....	534.22	1,837.20	77.16
Undistributed expenses	172.59	....	33.95	559.39	29.38
Truck operation and maintenance	362.19	....	....	150.01	....
Interest	786.35	613.94	489.77	1,749.00	182.56
Sinking fund and principal payments on debentures	1,379.75	436.53	372.66	1,902.29	142.70
Total expenses	16,857.88	13,345.58	8,215.54	42,919.72	4,940.66
Gross surplus	562.48	3,130.90	886.02	895.47	176.66
Gross loss	....	....	....	....	....
Depreciation	835.00	599.00	548.00	2,280.00	315.00
Net surplus	....	2,531.90	338.02	....	....
Net loss	272.52	....	....	1,384.53	138.34
NUMBER OF CONSUMERS					
Domestic service	311	231	173	688	95
Commercial light service	97	76	54	109	35
Power service	12	4	13	24	5
Total	420	311	240	821	135

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1930

Humberstone 1,597	Ingersoll 5,050	Jarvis 471	Kingsville 2,223	Kitchener 28,282	Lambeth P.V.	La Salle 628	Leamington 5,269
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
9,290.28	32,567.41	1,648.37	13,405.06	181,079.68	3,493.88	9,300.58	24,072.55
2,805.14	16,093.05	1,300.07	6,208.22	103,749.02	1,612.35	3,177.73	15,241.16
6,638.05	24,668.44	4,113.93	2,173.50	225,304.43	....	2,507.78	12,238.09
....	1,749.41	....	1,125.16	26,693.61	314.65	....	5,149.47
1,296.00	4,607.50	840.00	3,700.00	30,174.93	435.00	1,094.50	7,346.07
....	380.47	....	....	....	....	....	....
27.75	2,184.99	39.43	1,173.06	4,561.66	5.60	22.38	772.25
20,057.22	82,251.27	7,941.80	27,785.00	571,563.33	5,861.48	16,102.97	64,819.59
9,569.06	55,404.14	5,845.48	14,497.78	400,504.21	3,692.48	8,064.20	33,535.64
....	....	....	....	8,093.40	....	....	....
....	403.51	....	....	1,820.33	....	....	....
1,982.64	3,086.35	67.03	3,255.91	15,966.67	8.80	1,789.65	4,389.33
431.48	81.68	....	....	223.48	....	7.60	3.70
266.80	536.97	22.15	289.86	5,011.02	....	227.02	878.77
....	....	....	....	218.25	....	....	....
153.96	568.95	77.30	393.33	10,348.64	29.89	14.45	1,061.00
....	....	....	....	176.42	....	....	....
....	974.75	386.39	978.69	10,786.79	....	....	1,423.83
780.82	4,425.38	128.82	720.25	9,278.58	356.31	402.43	3,527.51
6.00	1,227.44	20.06	474.64	3,936.09	....	218.00	1,422.88
164.51	492.00	....	375.81	3,391.30	....	196.46	928.29
1,368.62	3,348.77	463.92	1,875.37	14,111.40	207.23	819.40	2,438.67
1,800.00	1,677.35	415.21	567.06	20,872.15	114.39	531.96	1,746.19
16,523.89	72,227.29	7,426.36	23,428.70	504,738.73	4,409.10	12,271.17	51,355.81
3,533.33	10,023.98	515.44	4,356.30	66,824.60	1,452.38	3,831.80	13,463.78
....	....	....	....	....	....	....	....
906.00	3,716.00	332.00	1,591.00	25,528.65	267.00	681.00	2,708.00
2,627.33	6,307.98	183.44	2,765.30	41,295.95	1,185.38	3,150.80	10,755.78
....	....	....	....	....	....	....	....
480	1,321	93	702	6,751	107	198	1,256
73	235	37	165	938	19	30	244
7	43	4	15	243	1	3	29
560	1,599	134	882	7,932	127	231	1,529

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Listowel	London	London Twp.	Lucan	Lynden
Population	2,545	68,404	7,821	573	P.V.
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	17,321.31	445,925.63	8,948.59	4,715.32	1,765.42
Commercial light service	7,924.86	190,442.03	1,566.17	1,757.01	736.95
Commercial power service	10,368.14	380,650.32	1,505.25	1,754.78	916.65
Municipal power	1,527.54	29,477.43	....	....	....
Street lighting	3,591.06	50,160.45	664.50	1,035.00	388.97
Merchandise	....	5,428.96	....	....	....
Miscellaneous	307.50	34,404.24	196.03	233.95	194.54
Total earnings	41,040.41	1,136,489.06	12,880.54	9,496.06	4,002.53
EXPENSES					
Power purchased	29,061.39	690,530.57	8,279.59	5,434.53	3,090.99
Substation operation	....	15,799.28	....	....	....
Substation maintenance	98.17	9,381.71	....	....	....
Distribution system, operation and maintenance	2,222.78	13,305.87	534.13	936.56	128.24
Line transformer maintenance	24.56	2,202.30	....	....	....
Meter maintenance	187.20	16,190.48	....	....	....
Consumers' premises expenses	....	3,427.51	....	....	....
Street lighting, operation and maintenance	373.73	5,813.47	150.49	69.90	22.44
Promotion of business	....	3,382.77	....	....	....
Billing and collecting	719.21	22,262.92	299.17	251.24	150.00
General office, salaries and expenses	616.85	37,688.12	382.00	188.80	13.80
Undistributed expenses	359.37	26,249.64	10.16	10.17	71.13
Truck operation and maintenance	200.10	7,380.47	....	....	....
Interest	653.25	55,284.97	808.94	281.47	184.81
Sinking fund and principal payments on debentures	1,825.35	55,569.20	815.67	539.83	124.47
Total expenses	36,341.96	964,469.28	11,280.15	7,712.50	3,785.88
Gross surplus	4,698.45	172,019.78	1,600.39	1,783.56	216.65
Gross loss	....	....	....	....	....
Depreciation	2,108.00	81,138.93	557.00	544.00	244.00
Net surplus	2,590.45	90,880.85	1,043.39	1,239.56	....
Net loss	....	....	....	....	27.35
NUMBER OF CONSUMERS					
Domestic service	695	16,690	293	167	77
Commercial light service	157	2,634	13	47	18
Power service	24	508	3	9	1
Total	876	19,832	309	223	96

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1930

Markham 969	Merlin P.V.	Merritton 2,575	Milton 1,775	Milverton 1,122	Mimico 5,762	Mitchell 1,645	Moorefield P.V.
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
5,617.46	2,032.80	12,065.94	10,899.18	5,056.10	52,674.50	9,755.00	690.99
2,526.44	1,268.33	2,287.24	5,224.28	2,560.57	8,522.67	4,657.69	728.14
4,848.52	4,195.80	53,575.16	29,835.26	4,645.24	4,042.80	4,644.80	1,323.32
....	....	....	....	327.14	3,275.24	763.71	....
1,340.00	688.00	2,773.00	1,845.00	1,003.25	8,448.96	2,061.27	375.00
....	....	....	209.39	....	....	2,789.69	....
256.60	290.29	....	1,644.96	138.10	1,178.30	294.69	67.68
14,589.02	8,475.22	70,701.34	49,658.07	13,730.40	78,142.47	24,966.85	3,185.13
7,969.63	5,999.20	49,366.47	29,882.19	11,726.56	46,028.91	13,526.25	2,574.58
....	....	....	242.05	....	....	416.64	....
....	....	....	....	....	706.52	....	....
1,107.55	207.36	3,047.11	3,412.48	256.51	7,612.65	590.77	69.32
....	....	183.77	20.32	....	....	....	....
....	....	630.51	159.77	64.62	522.61	245.61	....
....	....	....	....	....	....	....	....
84.57	49.71	297.47	279.27	141.70	1,510.36	192.40	65.07
....	....	....	....	....	....	....	....
....	....	....	....	633.29	1,760.78	900.00	....
970.11	172.40	2,186.36	1,765.61	214.76	1,739.32	961.53	153.92
....	49.06	542.96	545.26	105.44	1,974.88	365.17	....
....	....	300.41	541.49	....	854.94	114.15	....
313.15	599.97	1,396.65	1,742.76	278.16	4,817.78	77.94	138.64
677.65	577.02	1,280.55	1,386.46	576.64	4,113.25	601.40	245.77
11,122.66	7,654.72	59,232.26	39,977.66	13,997.68	71,642.00	17,991.86	3,247.30
3,466.36	820.50	11,469.08	9,680.41	....	6,500.47	6,974.99	....
....	....	....	....	267.28	....	....	62.17
614.00	320.00	1,757.00	2,130.30	616.00	4,586.00	976.00	164.00
2,852.36	500.50	9,712.08	7,550.11	....	1,914.47	5,998.99	....
....	....	....	....	883.28	....	....	226.17
252	102	620	456	211	1,628	445	44
62	39	55	98	73	130	112	32
10	4	8	20	8	14	22	2
324	145	683	574	292	1,772	579	78

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA
SYSTEM—**Continued**

Municipality Population	Mount Brydges P.V.	Newbury 298	New Hamburg 1,454	New Toronto 5,622	Niagara Falls 18,403
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	2,463.41	1,093.34	9,964.94	30,942.44	150,408.18
Commercial light service	984.39	865.75	4,006.12	10,151.94	65,260.95
Commercial power service	883.04	621.46	4,567.02	107,845.18	64,546.04
Municipal power				10,237.00	13,386.30
Street lighting	506.00	690.00	2,233.27	8,429.04	29,896.43
Merchandise			545.27		
Miscellaneous	169.07	42.48	210.94	1,897.25	41.38
Total earnings	5,005.91	3,313.03	21,527.56	169,502.85	323,539.28
EXPENSES					
Power purchased	2,968.52	1,978.67	14,588.12	139,431.87	185,880.05
Substation operation			383.96		8,653.56
Substation maintenance					
Distribution system, operation and maintenance	41.86	23.09	527.98	6,015.63	5,754.38
Line transformer maintenance			55.46	75.60	881.84
Meter maintenance	3.37		414.16	518.80	4,523.08
Consumers' premises expenses					
Street lighting, operation and maintenance	37.57	14.16	363.66	1,801.22	3,315.48
Promotion of business					38.63
Billing and collecting	167.36		513.26	2,601.65	7,224.38
General office, salaries and expenses	121.72	255.92	533.64	3,651.82	8,633.52
Undistributed expenses	25.63		300.98	3,670.96	7,093.67
Truck operation and maintenance			347.13		3,095.64
Interest	160.30	392.15	518.62	266.40	22,408.28
Sinking fund and principal payments on debentures	130.06	400.00	684.61	262.85	18,609.67
Total expenses	3,656.39	3,063.99	19,231.58	158,296.80	276,112.18
Gross surplus	1,349.52	249.04	2,295.98	11,206.05	47,427.10
Gross loss					
Depreciation	253.00	251.00	1,203.00	4,230.00	21,475.00
Net surplus	1,096.52		1,092.98	6,976.05	25,952.10
Net loss		1.96			
NUMBER OF CONSUMERS					
Domestic service	135	60	342	1,275	4,532
Commercial light service	35	28	91	138	720
Power service	3	2	12	26	95
Total	173	90	445	1,439	5,347

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1930

Niagara-on-the-Lake 1,547	Norwich 1,213	Oil Springs 466	Otterville P.V.	Palmerston 1,792	Paris 4,156	Parkhill 959	Petrolia 2,671
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
14,024.74	7,662.74	1,659.24	2,095.67	9,882.62	24,481.40	4,882.37	11,059.06
2,980.00	2,697.69	983.27	1,564.55	5,586.33	7,995.27	2,785.94	6,576.83
912.70	1,565.86	7,831.10	614.39	4,831.57	11,634.50	953.83	23,952.88
1,727.89	749.52	....	61.44	1,393.57	1,225.00	562.76	....
2,629.92	2,100.00	738.00	409.72	1,788.05	5,724.90	1,438.00	2,639.91
....	379.38	....	....	....	47.39	....	36.82
....	1,042.64	224.80	280.22	....	2,500.05	132.06	734.47
22,275.25	16,197.83	11,436.41	5,025.99	23,482.14	53,608.51	10,754.96	44,999.97
11,629.95	9,784.24	6,916.98	3,088.47	17,020.89	33,884.86	8,039.23	29,087.19
....	....	....	....	....	....	....	....
....	....	....	....	....	194.66	....	8.67
2,429.19	1,395.04	978.89	248.84	1,136.42	4,216.28	358.68	2,378.84
.50	24.35	....	19.44	....	....	....	62.50
112.00	422.51	....	148.34	222.04	192.16	....	330.21
....	....	....	....	....	....	....	....
687.80	406.83	37.74	95.97	108.31	884.16	148.51	219.68
....	....	....	....	....	....	....	....
....	631.00	278.06	107.88	587.65	1,443.98	292.63	758.79
1,624.82	367.98	161.58	55.85	716.11	1,230.69	187.00	3,329.84
5.96	291.87	433.57	31.40	161.80	387.12	44.78	496.10
378.35	213.43	24.26	....	60.16	299.68	....	371.83
1,221.11	406.48	630.78	116.86	607.82	2,032.04	589.54	1,824.47
632.88	488.35	947.25	276.57	722.56	1,521.42	827.80	1,892.21
18,722.56	14,432.08	10,409.11	4,189.62	21,343.76	46,287.05	10,488.17	40,760.33
3,552.69	1,765.75	1,027.30	836.37	2,138.38	7,321.46	266.79	4,239.64
....	....	....	....	....	....	....	....
1,235.00	702.00	650.00	321.00	1,150.00	4,275.00	610.00	2,455.00
2,317.69	1,063.75	377.30	515.37	988.38	3,046.46	....	1,784.64
....	....	....	....	....	....	343.21	....
452	348	71	108	399	1,053	224	633
75	84	30	40	102	176	74	182
10	7	30	3	8	25	5	57
537	439	131	151	509	1,254	303	872

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Plattsville	Point Edward	Port Colborne	Port Credit	Port Dalhousie
Population	P.V.	1,378	5,461	1,400	1,656
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	2,149.30	5,849.83	29,972.85	11,431.33	12,914.43
Commercial light service	953.21	1,782.84	13,041.07	4,824.69	2,010.72
Commercial power service	757.09	19,891.18	9,550.07	720.10	4,014.48
Municipal power			6,225.20	947.77	
Street lighting	544.00	924.00	7,009.07	3,354.00	1,612.50
Merchandise					
Miscellaneous		563.79	5,279.27	32.03	
Total earnings	4,403.60	29,011.64	71,077.53	21,309.92	20,552.13
EXPENSES					
Power purchased	3,314.10	23,722.54	42,694.76	14,287.89	11,782.56
Substation operation					
Substation maintenance					
Distribution system, operation and maintenance	60.48	243.70	3,890.68	1,390.61	1,579.58
Line transformer maintenance		53.80	161.11		9.67
Meter maintenance		63.36	1,227.56		102.75
Consumers' premises expenses					
Street lighting, operation and maintenance	31.40	212.81	1,188.08	475.04	181.02
Promotion of business			850.60		
Billing and collecting	187.60	719.32	1,469.57	719.82	
General office, salaries and expenses	7.20	912.30	2,634.96	240.94	1,785.83
Undistributed expenses	30.03	347.00	1,327.05		
Truck operation and maintenance			1,267.53		241.50
Interest	176.38	722.84	4,709.69	520.05	610.14
Sinking fund and principal payments on debentures	163.85	794.02	5,045.17	449.30	1,120.84
Total expenses	3,971.04	27,791.69	66,466.76	18,083.65	17,413.89
Gross surplus	432.56	1,219.95	4,610.77	3,226.27	3,138.24
Gross loss					
Depreciation	82.00	895.00	3,524.00	1,224.00	815.00
Net surplus	350.56	324.95	1,086.77	2,002.27	2,323.24
Net loss					
NUMBER OF CONSUMERS					
Domestic service	85	289	1,295	399	575
Commercial light service	25	39	201	73	50
Power service	1	14	20	5	80
Total	111	342	1,516	477	705

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1930

Port Dover 1,628	Port Rowan 681	Port Stanley 583	Preston 5,884	Princeton P.V.	Queenston P.V.	Richmond Hill 1,170	Ridgetown 1,983
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
6,546.64	2,443.38	11,067.61	47,275.32	2,216.22	2,720.12	6,180.30	9,993.51
4,619.04	1,766.00	3,240.09	19,921.17	609.45	201.64	3,202.72	4,994.09
4,695.05	102.76	3,807.07	42,017.95	2,670.87	771.57	2,220.17	5,428.64
....	....	393.49	1,080.03	....	....	399.94	1,021.61
2,926.84	1,242.00	1,914.00	4,960.32	312.00	543.96	1,389.00	3,397.15
....	....	....	....	....	....	....	135.63
....	....	281.20	187.96	32.55	....	92.28	556.19
18,787.57	5,554.14	20,703.46	115,442.75	5,808.54	4,269.84	13,484.41	25,526.82
10,219.26	4,459.47	12,238.52	85,895.65	4,867.33	2,726.79	8,152.59	15,266.35
....	....	....	4,386.34	....	....	....	....
....	....	....	98.09	....	....	....	....
1,233.46	73.11	2,301.85	5,586.25	147.25	235.08	2,225.62	780.56
....	....	110.39	306.19	....	....	31.15	23.39
91.95	....	76.75	1,319.83	....	63.30	189.25	239.12
....	....	....	....	....	....	....	....
134.04	26.33	130.15	834.78	39.11	26.98	128.63	651.96
551.48	....	....	....	....	....	....	....
446.62	372.48	712.19	1,845.08	232.95	....	....	690.09
44.63	27.61	487.15	987.56	2.00	337.42	889.37	1,456.54
160.11	72.67	301.44	1,071.63	33.36	....	....	248.98
169.47	....	173.67	698.55	....	....	....	....
1,079.68	1,097.72	523.29	3,263.19	112.21	423.00	355.04	463.72
1,766.62	335.99	709.53	4,659.06	111.08	392.01	579.72	300.30
15,897.32	6,465.38	17,764.93	110,952.20	5,545.29	4,204.58	12,551.37	20,121.01
2,890.25	....	2,938.53	4,490.55	263.25	65.26	933.04	5,405.81
....	911.24	....	....	....	....	....	....
1,154.00	300.00	1,023.00	7,123.00	212.00	280.00	503.00	1,242.00
1,736.25	....	1,915.53	....	51.25	....	430.04	4,163.81
....	1,211.24	....	2,632.45	....	214.74	....	....
397	88	566	1,538	80	66	317	540
132	33	76	225	16	6	64	154
13	1	14	51	3	1	12	22
542	122	656	1,814	99	73	393	716

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality Population	Riverside 4,603	Rockwood P.V.	Rodney 752	St. Catharines 24,094	St. Clair Beach 107
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	44,159.30	2,831.95	3,037.96	140,271.42	2,313.50
Commercial light service	5,074.70	1,107.25	2,343.06	43,424.93	1,485.45
Commercial power service	7,525.89	378.35	1,592.46	90,566.30	606.62
Municipal power	2,791.72				
Street lighting	4,682.74	747.00	942.00	24,778.77	
Merchandise					
Miscellaneous		6.16	299.80	5,735.08	
Total earnings	64,234.35	5,070.71	8,215.28	304,776.50	4,405.57
EXPENSES					
Power purchased	35,217.37	4,109.65	5,400.04	184,826.01	2,648.72
Substation operation				6,288.30	
Substation maintenance					
Distribution system, operation and maintenance	3,486.95	118.03	493.27	15,660.34	734.71
Line transformer maintenance	568.94			1,134.36	54.56
Meter maintenance	2,069.54	87.27	24.53	2,631.08	136.24
Consumers' premises expenses	1,072.77				57.17
Street lighting, operation and maintenance	1,344.15	84.76	83.23	3,945.26	
Promotion of business				1,855.30	
Billing and collecting	3,582.25		517.50	7,370.57	174.25
General office, salaries and expenses	1,731.42	477.14	18.24	12,213.78	8.42
Undistributed expenses	1,430.25	13.19	24.42	5,103.15	126.84
Truck operation and maintenance				5,535.74	
Interest	3,861.69	67.91	352.19	10,609.27	249.57
Sinking fund and principal payments on debentures	3,159.25		235.36	8,457.53	272.42
Total expenses	57,524.58	4,957.95	7,148.78	265,630.69	4,462.90
Gross surplus	6,709.77	112.76	1,066.50	39,145.81	
Gross loss					57.33
Depreciation	3,387.00	383.00	418.00	15,086.00	270.00
Net surplus	3,322.77		648.50	24,059.81	
Net loss		270.24			327.33
NUMBER OF CONSUMERS					
Domestic service	1,127	139	188	5,979	51
Commercial light service	56	32	75	644	9
Power service	8	1	5	144	2
Total	1,191	172	268	6,767	62

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1930

St. George	St. Jacobs	St. Marys	St. Thomas	Sandwich	Sarnia	Scarboro' Twp.	Seaforth
P.V.	P.V.	4,072	16,567	10,655	16,763	17,105	1,702
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
2,652.01	3,149.52	26,279.64	101,984.90	96,806.75	100,945.88	77,958.80	9,569.87
805.88	1,163.93	8,558.17	44,999.76	20,331.08	47,278.37	17,696.22	5,588.05
2,188.99	3,102.75	16,186.02	51,077.49	19,954.62	163,372.87	12,611.58	4,189.08
....	....	1,544.43	6,381.69	....	....	10,544.38	654.63
297.55	445.00	3,496.66	14,066.89	10,455.21	15,232.73	16,963.91	1,520.00
....	....	....	....	484.87	80.15	....	....
127.92	174.46	415.73	3,009.80	2,642.34	3,570.45	670.47	1,032.45
6,072.35	8,035.66	56,480.65	221,520.53	150,674.87	330,480.45	136,445.36	22,554.08
5,004.78	6,422.73	43,522.12	140,171.03	106,849.50	205,726.95	68,995.14	14,476.06
....	....	1,348.24	6,644.14	....	2,743.29	112.62	....
....	....	38.90	560.49	....	21.88	....	....
....	5.42	904.25	6,588.88	3,164.21	6,493.97	4,169.41	1,951.97
....	....	175.29	560.22	382.56	1,072.47	1,258.16	34.54
.50	154.08	735.90	1,722.70	1,443.20	1,645.41	542.93	83.76
....	....	....	1,752.06	....	....	....	....
75.74	89.93	818.32	2,518.22	1,851.46	2,996.44	2,348.86	186.62
....	....	3.80	181.36	....	....	....	138.75
566.09	....	1,266.36	4,579.86	6,266.63	4,315.67	4,863.55	611.58
42.75	461.47	1,652.33	12,217.19	6,072.48	10,210.82	7,077.86	569.05
53.20	....	924.15	765.05	1,993.15	8,468.81	2,430.26	122.63
....	....	611.53	2,944.41	1,377.00	3,717.74	2,299.08	206.71
227.91	174.91	1,387.20	2,347.20	7,573.07	12,630.13	13,066.03	1,300.46
184.92	327.18	2,311.98	4,569.13	5,446.05	17,202.87	11,291.12	445.75
6,155.89	7,635.72	55,700.37	195,006.74	142,419.31	277,246.45	118,455.02	20,127.88
....	399.94	780.28	26,513.79	8,255.56	53,234.00	17,990.34	2,426.20
83.54	....	....	....	....	....	....	....
287.00	299.00	3,704.00	11,274.00	5,126.00	15,700.00	9,164.00	604.00
....	100.94	....	15,239.79	3,129.56	37,534.00	8,826.34	1,822.20
370.54	....	2,923.72	....	....	....	....	....
131	102	1,008	4,126	2,802	4,476	3,904	496
33	25	187	642	236	609	323	120
3	6	37	106	37	85	33	12
167	133	1,232	4,874	3,075	5,170	4,260	628

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA
SYSTEM—Continued

Municipality	Simcoe	Springfield	Stamford Twp.	Stouffville	Stratford
Population	4,675	393	6,790	1,053	18,671
Earnings	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	15,546.85	1,617.62	51,366.64	6,075.07	141,864.86
Commercial light service	20,486.28	819.46	7,920.05	2,725.49	48,151.46
Commercial power service	18,600.51	3,320.70	3,851.46	1,283.84	53,749.33
Municipal power	1,792.27	....	2,027.13	....	9,158.07
Street lighting	3,094.67	550.00	7,009.56	1,694.00	15,907.55
Merchandise	468.55	....	....	....	56.08
Miscellaneous	....	188.86	884.57	337.95	9,183.47
Total earnings	60,799.13	6,496.64	73,059.41	12,116.35	278,070.82
Expenses					
Power purchased	36,192.76	4,001.67	31,950.41	6,141.20	201,918.49
Substation operation	....	....	372.92	....	4,603.10
Substation maintenance	219.37	....	....	....	1,266.83
Distribution system, operation and maintenance	3,742.79	44.63	3,937.36	789.83	6,410.58
Line transformer maintenance	185.58	....	45.50	....	456.79
Meter maintenance	775.91	....	278.32	....	2,085.99
Consumers' premises expenses	....	....	....	....	....
Street lighting, operation and maintenance	674.68	49.33	1,119.51	148.48	2,556.26
Promotion of business	....	....	1,346.38	....	....
Billing and collecting	1,494.85	309.28	3,530.35	....	4,994.94
General office, salaries and expenses	1,366.93	115.63	4,293.96	486.78	8,243.03
Undistributed expenses	1,004.47	28.63	1,103.84	....	4,057.32
Truck operation and maintenance	465.07	....	1,654.76	....	1,715.62
Interest	3,334.37	263.46	8,137.34	672.24	21,775.00
Sinking fund and principal payments on debentures	2,200.58	143.73	7,558.68	1,288.34	10,022.36
Total expenses	51,657.36	4,956.36	65,329.33	9,526.87	270,106.31
Gross surplus	9,141.77	1,540.28	7,730.08	2,589.48	7,964.51
Gross loss	....	....	....	....	....
Depreciation	2,709.00	291.00	5,168.00	461.00	10,136.00
Net surplus	6,432.77	1,249.28	2,562.08	2,128.48	....
Net loss	....	....	....	....	2,171.49
Number of Consumers					
Domestic service	903	92	1,550	301	4,296
Commercial light service	280	34	100	82	627
Power service	38	4	12	5	141
Total	1,221	130	1,662	388	5,064

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1930

Strathroy 2,737	Sutton 833	Tavistock 965	Tecumseh 2,260	Thamesford P.V.	Thamesville 886	Thedford 535	Thorndale P.V.
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
18,735.50	6,810.04	6,679.85	15,159.54	2,263.52	4,461.28	2,643.90	1,370.46
10,054.50	2,999.25	2,131.78	3,747.23	1,412.84	3,532.94	1,463.88	1,071.09
8,556.75	1,472.12	7,888.63	3,574.53	3,134.71	1,862.74	720.71	718.06
1,427.53	....	465.79	....	....	....	....	....
3,819.96	1,823.50	1,180.30	1,089.00	517.00	1,059.00	1,035.00	372.00
909.67	....	....	....	....	....	....	....
1,209.72	....	175.89	....	302.05	275.74	256.00	....
44,713.63	13,104.91	18,522.24	23,570.30	7,630.12	11,191.70	6,119.49	3,531.61
27,960.55	8,253.24	14,972.33	12,053.49	5,171.75	7,222.74	3,625.58	2,902.91
216.10	....	....	....	....	....	....	....
245.21	....	....	....	....	....	....	....
806.33	916.59	565.08	2,132.08	178.84	696.51	225.17	97.76
91.60	....	14.10	130.64	27.05	....	....	....
259.99	....	53.22	1,326.55	....	....	....	....
....	....	....	313.83	....	....	....	....
476.26	175.46	39.77	330.99	73.13	139.80	37.86	37.87
....	....	....	....	....	....	....	....
898.11	....	310.83	1,519.15	209.50	291.29	34.30	71.51
2,189.20	593.46	228.00	403.43	39.61	372.07	213.77	1.98
858.11	....	96.44	654.94	26.88	58.75	....	15.11
224.19	....	....	....	....	....	....	....
1,158.88	1,151.09	220.03	1,535.23	125.66	344.31	724.42	83.89
1,720.55	146.79	170.29	1,088.57	176.23	487.69	714.92	74.50
37,105.08	11,236.63	16,670.09	21,488.90	6,028.65	9,613.16	5,576.02	3,285.53
7,608.55	1,868.28	1,852.15	2,081.40	1,601.47	1,578.54	543.47	246.08
....	....	....	....	....	....	....	....
2,823.00	705.00	680.00	1,351.00	388.00	634.00	303.00	202.00
4,785.55	1,163.28	1,172.15	730.40	1,213.47	944.54	240.47	44.08
....	....	....	....	....	....	....	....
786	363	252	483	117	212	128	68
179	73	73	53	36	82	41	28
26	5	5	3	8	7	2	1
991	441	330	539	161	301	171	97

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM Continued

Municipality	Thorold	Tilbury	Tillsonburg	Toronto	Toronto Twp.
Population	5,037	1,886	3,166	585,628	8,047
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	20,101.69	6,313.64	13,795.78	3,408,578.98	50,586.57
Commercial light service	6,368.17	6,289.01	11,772.71	2,968,306.66	14,080.39
Commercial power service	28,178.20	10,741.43	10,123.94	3,441,355.27	4,847.96
Municipal power	3,153.41	360.76	1,007.71	1,593,703.76	....
Street lighting	3,393.50	1,549.62	2,560.48	507,020.12	4,641.89
Merchandise	....	....	248.41	....	....
Miscellaneous	171.21	507.39	1,533.94	332,696.06	413.96
Total earnings	61,366.18	25,761.85	41,042.97	12,251,660.85	74,570.77
EXPENSES					
Power purchased	42,447.19	17,101.25	23,746.60	6,115,392.91	37,777.13
Substation operation	....	....	1,075.75	249,364.82	....
Substation maintenance	2,409.56	....	....	242,853.64	....
Distribution system, operation and maintenance	3,493.73	1,825.64	2,984.94	412,026.81	2,357.47
Line transformer maintenance	11.48	67.96	78.45	49,412.04	36.08
Meter maintenance	268.28	18.68	25.32	114,151.76	1,255.69
Consumers premises expenses	....	....	....	274,538.25	....
Street lighting, operation and maintenance	351.87	109.34	279.30	144,783.37	831.82
Promotion of business	....	....	....	198,708.97	....
Billing and collecting	776.33	331.86	818.41	338,800.13	3,006.22
General office, salaries and expenses	733.97	383.30	3,763.36	326,848.25	4,146.73
Undistributed expenses	432.41	215.76	1,401.49	206,385.59	1,761.67
Truck operation and maintenance	367.38	....	400.88	....	1,400.07
Interest	108.95	778.81	799.02	1,340,131.91	3,418.48
Sinking fund and principal payments on debentures	570.39	296.91	1,341.75	1,035,329.87	3,640.53
Total expenses	51,971.54	21,129.51	36,715.27	11,048,728.32	59,631.89
Gross surplus	9,394.64	4,632.34	4,327.70	1,202,932.53	14,938.88
Gross loss	....	....	....	....	....
Depreciation	2,552.00	953.00	2,723.00	708,187.08	6,913.00
Net surplus	6,842.64	3,679.34	1,604.70	494,745.45	8,025.88
Net loss	....	....	....	....	....
NUMBER OF CONSUMERS					
Domestic service	1,166	414	832	147,706	1,667
Commercial light service	180	134	206	26,546	147
Power service	14	16	30	5,251	19
Total	1,360	564	1,068	*179,503	1,833

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*This includes York Twp.

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1930

Trafalgar Twp. Zone No. 1 3,732	Trafalgar Twp., Zone No. 2	Walker-ville 10,671	Wallace-burg 4,360	Wards-ville 214	Water-down 874	Waterford 1,097	Waterloo 7,782
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
13,047.09	4,293.08	107,115.09	17,359.71	990.23	5,229.77	7,050.32	54,979.67
573.25	454.45	34,795.69	9,663.97	1,187.44	838.64	1,888.41	21,987.94
1,006.29	....	177,559.60	47,736.54	....	1,980.80	4,031.12	28,005.80
....	....	....	1,638.59	....	233.47	282.20	3,439.47
....	....	14,893.57	2,975.00	700.00	930.00	1,608.00	7,227.14
....	....	....	....	....	....	2.68	831.08
28.49	76.94	15,827.51	2,009.47	59.25	178.43	364.48	73.19
14,655.12	4,824.47	350,191.46	81,383.28	2,936.92	9,391.11	15,227.21	116,544.29
6,830.00	2,296.00	227,776.98	58,415.96	1,708.78	6,435.17	11,838.87	77,058.43
....	....	6,264.79	172.35	....	....	....	2,503.51
....	....	2,009.94	....	....	....	....	671.47
2,538.86	298.53	5,368.20	2,758.01	83.91	360.00	350.40	4,367.66
....	....	1,320.15	57.65	....	....	....	97.00
187.33	10.65	3,272.66	333.02	....	147.10	3.73	599.34
....	....	3,874.76	....	....	....	....	....
....	....	2,835.05	366.14	79.70	92.81	157.08	1,333.74
....	....	2,452.80	128.99	....	....	....	....
....	....	10,304.00	2,284.04	....	607.51	475.00	2,414.46
1,383.10	655.28	15,125.66	2,531.86	181.62	292.05	573.87	5,417.34
158.09	83.51	10,169.83	2,601.52	....	46.77	29.35	890.02
361.34	....	1,926.62	966.68	....	....	....	1,283.43
902.83	550.00	12,108.39	3,155.12	337.66	82.12	....	3,634.60
790.89	....	13,015.24	2,322.52	346.61	450.68	....	4,219.05
13,152.44	3,893.97	317,825.07	76,093.86	2,738.28	8,514.21	13,428.30	104,490.05
1,502.68	930.50	32,366.39	5,289.42	198.64	876.90	1,798.91	12,054.24
....	....	....	....	....	....	....	....
952.00	211.00	15,494.00	4,166.00	200.00	713.00	850.00	7,559.00
550.68	719.50	16,872.39	1,123.42	....	163.90	948.91	4,495.24
....	....	....	....	1.36	....	....	....
250	....	2,581	989	51	214	309	1,792
2	....	354	204	26	27	71	233
11	....	102	24	....	6	11	73
†263	....	3,037	1,217	77	247	391	2,098

†Includes Zone No. 2.

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Continued

Municipality	Watford	Welland	Wellesley	West Lorne	Weston
Population	1,045	10,054	P.V.	777	4,425
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	6,116.52	52,347.87	2,668.92	3,475.85	35,306.90
Commercial light service	3,321.00	31,576.59	837.36	1,853.39	8,966.48
Commercial power service	2,230.43	59,664.36	2,371.72	7,647.25	49,027.92
Municipal power	316.89	4,034.59	....	....	1,559.71
Street lighting	1,325.07	11,209.04	720.00	1,010.04	7,549.75
Merchandise	....	761.29	....	....	....
Miscellaneous	159.94	8,165.53	14.94	59.80	451.33
Total earnings	13,469.85	167,759.27	6,612.94	14,046.33	102,862.09
EXPENSES					
Power purchased	8,419.22	83,452.12	4,806.19	11,330.88	74,946.37
Substation operation	....	5,138.01	....	....	146.00
Substation maintenance	....	190.52	....	....	402.98
Distribution system, operation and maintenance	788.90	7,632.31	40.69	79.49	2,673.33
Line transformer maintenance	....	436.34	....	....	77.90
Meter maintenance	217.80	3,356.38	....	....	665.76
Consumers' premises expenses	....	....	....	....	....
Street lighting, operation and maintenance	87.59	1,408.19	114.19	97.10	1,767.99
Promotion of business	6.57	....	....	....	....
Billing and collecting	503.54	4,171.02	....	840.84	....
General office, salaries and expenses	425.33	7,522.91	407.62	94.06	4,392.22
Undistributed expenses	56.67	2,293.11	56.51	77.31	768.97
Truck operation and maintenance	150.96	2,043.04	....	....	700.05
Interest	229.91	13,869.52	219.68	422.50	2,798.76
Sinking fund and principal payments on debentures	606.88	8,450.01	434.87	215.84	2,577.73
Total expenses	11,493.37	139,963.48	6,079.75	13,158.02	91,918.06
Gross surplus	1,976.48	27,795.79	533.19	888.31	10,944.03
Gross loss	....	....	....	....	....
Depreciation	641.00	10,486.53	267.00	566.00	4,377.00
Net surplus	1,335.48	17,309.26	266.19	322.31	6,567.03
Net loss	....	....	....	....	....
NUMBER OF CONSUMERS					
Domestic service	272	2,212	120	191	1,149
Commercial light service	81	427	34	54	180
Power service	5	81	4	5	27
Total	358	2,720	158	250	1,356

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1930

Wheatley 698	Windsor 68,569	Wood-bridge 727	Wood-stock 10,687	Wyoming 472	York Twp.* 55,187	E. York Twp. 27,408	N. York Twp. 10,332
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
4,339.02	531,544.87	5,219.93	78,764.88	2,224.35	396,807.16	146,962.27	74,114.72
2,751.71	274,997.73	1,541.30	39,725.09	1,386.73	45,961.46	16,778.12	11,492.35
1,318.56	219,890.40	3,670.64	51,665.95	102.20	92,413.21	43,776.25	13,170.11
268.64	20,073.26	360.22	3,369.93	....	....	3,745.08	3,132.21
1,830.42	85,266.83	810.00	7,171.44	750.00	55,866.11	18,328.94	4,043.30
....	....	....	....	....	....	....	....
....	....	175.17	2,427.40	14.03	15,590.54	577.05	2,753.87
10,508.35	1,131,773.09	11,777.26	183,124.69	4,477.31	606,638.48	230,167.71	108,706.56
5,844.42	658,247.05	8,459.12	121,232.73	2,875.16	226,436.19	128,421.43	49,841.20
....	16,682.98	....	2,513.25	....	19,213.61	....	....
....	10,422.19	....	339.61	....	....	....	126.16
388.26	27,166.19	244.21	4,567.59	187.87	13,520.16	8,456.23	9,190.13
....	5,021.17	....	....	....	4,038.33	1,601.69	589.83
11.85	9,168.52	384.13	1,670.30	....	7,959.51	2,808.54	1,504.34
....	16,050.97	....	....	....	19,124.49	881.00	....
237.37	29,643.24	129.62	2,671.34	36.73	8,351.94	1,923.04	1,615.09
....	7,750.03	....	38.99	....	4,226.24	78.00	21.94
307.70	35,398.30	....	3,394.63	130.44	30,220.53	11,471.00	4,727.34
73.38	21,483.85	633.27	4,408.57	196.42	23,766.00	10,224.73	4,195.36
37.12	29,775.95	....	3,658.36	....	22,393.77	3,779.98	2,697.78
....	10,219.64	....	991.93	....	....	3,879.93	3,632.09
567.67	73,864.74	566.90	2,352.45	266.66	127,882.62	15,484.01	14,440.00
514.08	77,582.99	248.32	2,535.31	628.60	18,616.91	12,278.92	8,930.14
7,981.85	1,028,477.81	10,665.57	150,375.06	4,321.88	525,750.30	201,288.50	101,511.40
2,526.50	103,295.28	1,111.69	32,749.63	155.43	80,888.18	28,879.21	7,195.16
....	....	....	....	....	....	....	....
493.00	58,200.00	713.00	10,247.00	330.00	16,145.00	10,291.00	8,302.00
2,033.50	45,095.28	398.69	22,502.63	....	64,743.18	18,588.21	....
....	....	....	....	174.57	....	....	1,106.84
184	14,787	232	2,787	120	....	8,124	2,216
62	2,398	47	454	47	....	360	190
4	363	7	91	1	....	35	30
250	17,548	286	3,332	168	....	8,519	2,436

*For year ending December 31, 1929. Included in Toronto figures. Not added in summary.

STATEMENT

Detailed Operating Reports of Electrical Departments of

NIAGARA SYSTEM—Concluded			GEORGIAN BAY SYSTEM		
Municipality	Zurich	NIAGARA SYSTEM SUMMARY	Alliston	Arthur	Barrie
Population	P.V.		1,342	952	7,311
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	3,015.06	8,649,883.83	8,934.35	4,109.62	41,410.23
Commercial light service	1,987.73	4,980,498.39	4,830.33	3,610.75	23,358.23
Commercial power service	....	7,395,319.29	2,464.33	1,550.34	12,001.51
Municipal power	....	1,942,420.06	632.38	....	912.91
Street lighting	693.00	1,337,604.96	2,051.98	1,765.02	5,123.00
Merchandise	....	18,667.07	....	....	....
Miscellaneous	127.90	506,775.11	265.95	15.34	979.17
Total earnings	5,823.69	24,831,168.71	19,179.32	11,051.07	83,785.05
EXPENSES					
Power purchased	5,012.15	14,120,032.41	10,426.16	7,633.82	62,717.60
Substation operation	....	402,517.94	....	....	....
Substation maintenance	....	301,516.37	....	....	194.78
Distribution system, operation and maintenance	130.93	798,332.92	1,417.26	525.73	4,328.27
Line transformer maintenance	....	87,710.73	....	....	86.58
Meter maintenance	....	226,640.57	....	....	602.00
Consumers' premises expenses	....	313,804.44	....	....	....
Street lighting, operation and maintenance	71.03	298,092.13	193.42	101.26	1,696.33
Promotion of business	....	234,916.78	....	....	....
Billing and collecting	....	632,961.62	....	....	1,826.16
General office, salaries and expenses	220.82	731,533.39	896.66	432.25	1,777.60
Undistributed expenses	....	415,589.01	....	....	1,075.64
Truck operation and maintenance	....	87,059.51	....	....	754.57
Interest	242.25	1,979,227.03	1,991.77	1,192.73	919.51
Sinking fund and principal payments on debentures	148.75	1,643,661.24	1,156.20	606.98	1,459.52
Total expenses	5,825.93	22,273,596.09	16,081.47	10,492.77	77,438.56
Gross surplus	....	2,557,572.62	3,097.85	558.30	6,346.49
Gross loss	2.24	....	....	....	....
Depreciation	339.00	1,342,130.60	1,185.00	347.00	5,960.00
Net surplus	....	1,215,442.02	1,912.85	211.30	386.49
Net loss	341.24	....	....	....	....
NUMBER OF CONSUMERS					
Domestic service	118	348,964	344	170	1,824
Commercial light service	49	56,371	108	86	336
Power service	....	10,403	14	4	35
Total	167	415,738	466	260	2,195

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1930

Beaverton 970	Beeton 560	Bradford 884	Brechin P.V.	Cannington 878	Chatsworth 257	Chesley 1,772	Coldwater 615
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
7,534.99	3,601.08	4,943.67	963.33	4,684.07	1,230.50	7,895.91	2,562.80
2,453.43	2,530.27	3,274.98	994.69	2,183.76	1,428.43	3,936.88	1,528.98
2,415.27	3,599.98	4,177.57	907.72	770.52	420.48	9,176.01	5,258.57
....	....	42.98	....	....	....	859.46	....
1,012.34	1,326.00	1,206.00	450.00	954.00	451.00	1,594.84	571.00
....	11.43	....	....	57.25	....	....	....
235.42	24.99	185.51	150.00	256.45	63.83	751.36	334.42
13,651.45	11,093.75	13,830.71	3,465.74	8,906.05	3,594.24	24,214.46	10,255.77
8,516.73	7,435.84	8,680.51	2,650.86	5,519.45	1,996.80	17,575.32	8,116.83
....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....
1,105.48	97.09	405.63	338.95	698.69	95.82	862.56	500.86
11.70	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....
179.75	74.16	110.48	82.69	36.38	....	154.57	81.27
....	....	....	....	....	....	....	....
....	....	....	....	....	....	381.15	....
639.56	431.89	817.82	114.53	535.80	330.48	667.48	408.12
....	....	....	....	....	....	....	....
....	....	....	....	....	....	93.15	....
513.21	658.65	1,310.80	227.27	606.32	295.18	697.40	194.05
528.55	386.15	699.74	84.00	515.90	203.16	1,639.67	287.61
11,494.98	9,083.78	12,024.98	3,498.30	7,912.54	2,921.44	22,071.30	9,588.74
2,156.47	2,009.97	1,805.73	....	993.51	672.80	2,143.16	667.03
....	....	....	32.56	....	....	....	....
1,070.00	515.00	745.00	123.00	567.00	223.00	1,070.00	216.00
1,086.47	1,494.97	1,060.73	....	426.51	449.80	1,073.16	451.03
....	....	....	155.56	....	....	....	....
380	121	195	39	234	58	413	129
58	35	62	26	66	32	102	57
10	6	8	4	11	1	20	....
448	162	265	69	311	91	535	186

STATEMENT

Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY SYSTEM—Continued

Municipality Population	Collingwood 6,126	Cookstown P.V.	Creemore 610	Dundalk 594	Durham 1,722
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	25,300.98	2,107.44	2,293.11	2,510.21	5,415.39
Commercial light service	10,857.35	1,452.24	1,753.75	2,208.63	4,033.69
Commercial power service	26,680.36	330.44	1,338.05	2,148.21	11,075.48
Municipal power	1,329.36	....	....	....	....
Street lighting	3,354.66	952.00	590.00	780.00	1,759.60
Merchandise	....	....	....	....	....
Miscellaneous	2,296.35	42.13	232.64	249.89	1,024.97
Total earnings	69,819.06	4,884.25	6,207.55	7,896.94	23,309.13
EXPENSES					
Power purchased	62,183.90	2,581.71	5,253.81	5,405.42	15,815.48
Substation operation	39.00	....	....	....	....
Substation maintenance	531.92	....	....	....	....
Distribution system, operation and maintenance	1,589.06	66.23	220.85	1,039.31	1,071.11
Line transformer maintenace	24.87	....	....	....	....
Meter maintenance	714.63	....	....	....	....
Consumers' premises expenses	....	....	....	....	....
Street lighting, operation and maintenance	237.18	23.36	61.29	155.90	84.32
Promotion of business	....	....	....	....	....
Billing and collecting	2,844.38	....	....	....	....
General office, salaries and expenses	2,991.64	437.12	259.22	594.67	1,992.42
Undistributed expenses	702.07	....	....	....	308.60
Truck operation and maintenance	222.03	....	....	....	239.08
Interest	350.04	578.47	147.03	129.62	596.99
Sinking fund and principal payments on debentures	2,274.84	692.47	423.47	303.48	2,032.09
Total expenses	74,705.56	4,379.36	6,365.67	7,628.40	22,140.09
Gross surplus	....	504.89	....	268.54	1,169.04
Gross loss	4,886.50	....	158.12	....	....
Depreciation	1,361.00	437.00	342.00	379.00	1,010.00
Net surplus	....	67.89	....	....	159.04
Net loss	6,247.50	....	500.12	110.46	....
NUMBER OF CONSUMERS					
Domestic service	1,384	96	152	160	387
Commercial light service	260	36	55	72	99
Power service	56	3	5	3	10
Total	1,700	135	212	235	496

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1930

Elmvale P.V.	Elmwood P.V.	Flesherton 454	Grand Valley 583	Gravenhurst 1,776	Hanover 2,626	Holstein P.V.	Huntsville 2,608
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
2,446.83	1,002.07	2,458.16	2,842.89	7,952.73	18,205.31	1,148.10	10,269.10
1,654.62	514.80	1,739.56	2,120.89	5,432.12	6,235.60	595.67	6,777.95
3,601.13	1,302.12	366.39	1,707.70	7,166.94	19,486.96	307.72	14,069.01
137.76	....	....	....	678.51	216.95	....	1,126.67
652.64	483.00	545.00	832.00	2,172.00	3,472.41	490.00	2,396.00
....	....	....	....	....	....	....	710.96
115.40	51.98	43.75	312.26	785.77	1,680.45	....	347.80
8,608.38	3,353.97	5,152.86	7,815.74	24,188.07	49,297.68	2,541.49	35,697.49
6,053.48	2,125.45	3,158.80	5,335.48	11,258.35	34,523.61	1,519.79	23,350.56
....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....
994.66	38.42	255.87	255.99	2,307.34	2,831.92	44.20	3,820.66
....	....	....	....	....	200.14	....	....
....	....	....	....	....	189.46	....	....
....	....	....	....	....	....	....	....
40.39	13.06	21.84	56.18	270.70	213.80	22.44	69.05
....	....	....	....	....	....	....	....
....	....	....	....	....	1,144.94	....	....
265.00	176.31	423.73	624.06	1,898.05	362.65	165.34	1,667.16
....	....	....	....	....	798.08	....	....
....	....	....	....	....	131.24	....	....
213.87	252.83	431.46	323.51	997.04	3,306.21	207.85	400.37
241.49	381.28	227.21	637.81	2,912.23	4,348.45	182.07	1,549.86
7,808.89	2,987.35	4,518.91	7,233.03	19,643.71	48,050.50	2,141.69	30,857.66
799.49	366.62	633.95	582.71	4,544.36	1,247.18	399.80	4,839.83
....	....	....	....	....	....	....	....
198.00	213.00	279.40	465.00	1,399.00	2,910.00	100.00	928.00
601.49	153.62	354.55	117.71	3,145.36	....	299.80	3,911.83
....	....	....	....	....	1,662.82	....	....
134	55	126	135	408	690	50	569
55	20	45	50	89	111	17	95
10	1	2	2	10	19	1	10
199	76	173	187	507	820	68	674

STATEMENT

Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY SYSTEM—Continued

Municipality	Kincardine	Kirkfield	Lucknow	Markdale	Meaford
Population	2,352	P.V.	1,147	798	2,729
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	14,053.52	803.38	6,507.52	3.164.88	11,304.03
Commercial light service	6,927.47	876.77	3,252.83	2,500.44	6,041.26
Commercial power service	7,771.97	285.48	4,049.51	910.58	4,422.74
Municipal power	1,559.07	....	....	81.00	777.30
Street lighting	3,729.60	460.00	1,656.25	672.00	3,166.90
Merchandise	264.61	....	....	....	....
Miscellaneous	217.18	....	163.03	189.68	847 73
Total earnings	34,523.42	2,425.63	15,629.14	7,518.58	26,559.96
EXPENSES					
Power purchased	21,182.67	1,530.01	11,459.98	4,756.54	14,199.27
Substation operation	....	....	....	....	....
Substation maintenance	....	....	....	....	....
Distribution system, operation and maintenance	1,818.95	157.55	274.69	161.09	1,295.83
Line transformer maintenance	....	....	....	....	50.75
Meter maintenance	....	....	....	....	212.55
Consumers' premises expenses	....	....	....	....	....
Street lighting, operation and maintenance	206.27	48.26	22.44	31.51	234.76
Promotion of business	....	....	....	....	....
Billing and collecting	914.38	....	....	....	823.99
General office, salaries and expenses	1,080.03	25.78	906.00	579.21	1,986.74
Undistributed expenses	....	....	....	....	191.93
Truck operation and maintenance	190.07	....	....	....	171.60
Interest	2,493.53	300.34	867.07	396.50	2,237.55
Sinking fund and principal payments on debentures	2,671.48	275.55	814.42	257.34	2,570.38
Total expenses	30,557.38	2,337.49	14,344.60	6,182.19	23,975.35
Gross surplus	3,966.04	88.14	1,284.54	1,336.39	2,584.61
Gross loss	....	....	....	....	....
Depreciation	1,741.00	185.00	630.00	542.00	1,201.00
Net surplus	2,225.04	....	654.54	794.39	1,383.61
Net loss	....	96.86	....	....	....
NUMBER OF CONSUMERS					
Domestic service	542	26	256	187	628
Commercial light service	117	19	84	80	131
Power service	19	1	3	9	16
Total	678	46	343	276	775

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1930

Midland 7,826	Mount Forest 1,823	Neustadt 431	Orangeville 2,721	Owen Sound 12,304	Paisley 700	Penetanguishene 3,615	Port McNicoll 831
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
34,006 94	6,918.18	2,198.11	12,265.53	54,009.53	3,603 90	9,038.18	2,848.72
13,606.04	5,373.71	1,321.60	9,307.20	33,237.98	2,585.66	3,826.82	544.20
72,377.44	4,314.44	95.65	7,160.66	37,354.27	1,269.65	10,113.11	71.28
3,002.76	1,297.95	....	1,511.59	....	....	1,748.75	....
6,113.34	2,358.00	975.00	3,977.24	10,917.25	1,408.00	1,880.00	506.00
....	....	....	....	375.62	....	....	....
1,306.82	594.68	....	79.72	834.48	141.53	333.48	3.87
130,413.34	20,856.96	4,590.36	34,301.94	136,729.13	9,008.74	26,940.34	3,974.07
92,665.23	13,168.15	3,213.30	19,747.84	95,784.90	6,690.51	19,316.16	2,846.03
1,980.00	....	....	....	2,932.40	....	965.51	....
531.84	....	....	....	....	....	18.65	....
4,142.26	1,782.18	59.85	1,879.91	5,150.56	240.00	2,193.65	146.49
451.04	....	....	....	388.14	....	198.08	....
1,745.90	....	....	....	2,064.27	....	34.66	....
....	....	....	35.27	....	....	....	....
578.50	269.98	29.86	312.28	2,902.33	123.77	155.22	24.74
228.62	....	....	....	....	....	....	....
2,399.40	....	....	975.68	3,577.67	....	924.76	....
2,125.97	1,173.51	335.13	200.02	6,473.32	502.05	518.56	407.35
2,141.19	....	....	....	3,008.51	....	321.77	....
398.63	....	....	....	1,405.74	....	155.13	....
2,849.46	817.35	940.14	996.40	1,264.80	718.22	1,179.77	241.27
5,277.69	1,183.42	844.55	2,033.75	671.74	632.71	1,715.54	405.33
117,515.73	18,394.59	5,422.83	26,181.15	125,624.38	8,907.26	27,697.46	4,071.21
12,897.61	2,462.37	....	8,120.79	11,104.75	101.48	....	....
....	....	832.47	....	....	....	757.12	97.14
8,383.00	1,170.00	528.00	1,596.00	6,206.00	424.00	944.00	341.00
4,514.61	1,292.37	....	6,524.79	4,898.75	....	....	....
....	....	1,360.47	....	....	322.52	1,701.12	438.14
1,550	422	94	631	3,014	173	545	161
249	196	27	157	567	61	100	22
62	12	2	27	122	4	26	1
1,861	630	123	815	3,703	238	671	184

STATEMENT

Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY SYSTEM—Continued

Municipality	Port Perry	Priceville	Ripley	Shelburne	Stayner
Population	1,185	P.V.	423	1,135	968
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	6,903.89	596.42	2,771.35	5,633.22	3,788.69
Commercial light service	1,699.60	323.71	2,194.46	3,654.14	2,527.82
Commercial power service	4,279.96			1,078.32	2,741.96
Municipal power	445.32			523.61	
Street lighting	1,397.17	560.00	1,349.00	1,049.56	1,117.00
Merchandise					
Miscellaneous	496.57		83.36	283.63	377.23
Total earnings	15,222.51	1,480.13	6,398.17	12,222.48	10,552.70
EXPENSES					
Power purchased	8,746.88	1,072.02	4,190.89	7,672.05	6,029.02
Substation operation					
Substation maintenance					
Distribution system, operation and maintenance	804.18	1.50	78.58	513.30	790.03
Line transformer maintenance					
Meter maintenance					
Consumers' premises expenses					
Street lighting, operation and maintenance	196.80	14.23	26.20	48.67	23.40
Promotion of business					
Billing and collecting				538.79	
General office, salaries and expenses	834.98	48.24	424.70	76.38	509.04
Undistributed expenses					
Truck operation and maintenance	347.92				
Interest	1,063.26	393.07	709.40	488.03	315.60
Sinking fund and principal payments on debentures	627.62	396.49	320.55	1,138.38	911.43
Total expenses	12,621.64	1,925.55	5,750.32	10,475.60	8,578.52
Gross surplus	2,600.87		647.85	1,746.88	1,974.18
Gross loss		445.42			
Depreciation	743.00	154.00	362.00	800.00	682.00
Net surplus	1,857.87		285.85	946.88	1,292.18
Net loss		599.42			
NUMBER OF CONSUMERS					
Domestic service	276	30	108	287	221
Commercial light service	72	9	46	91	74
Power service	13			9	11
Total	361	39	154	387	306

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1930

Sunderland P.V.	Tara 441	Teeswater 817	Thornton P.V.	Tottenham 545	Uxbridge 1,425	Victoria Harbor 1,104	Waubaushene P.V.
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,974.68	2,955.63	4,637.86	1,246.97	2,917.70	7,385.94	2,531.03	1,933.71
1,713.52	1,777.69	2,632.34	666.18	2,419.66	3,506.17	942.92	529.47
93.47	1,221.47	1,073.57	332.56	1,112.85	1,278.03	45.25	197.79
....	....	....	....	201.37	....	107.18	86.57
594.00	1,675.00	1,700.00	840.00	1,225.08	1,541.00	702.00	328.00
42.25	....	177.27	6.71	....	436.17	8.66	4.07
4,417.92	7,629.79	10,221.04	3,092.42	7,876.66	14,147.31	4,337.04	3,079.61
2,877.83	3,479.43	5,307.19	1,737.75	5,372.01	9,077.35	2,826.05	1,617.33
....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....
199.82	301.36	223.75	47.45	465.27	573.12	255.87	202.50
....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....
64.40	39.07	45.51	13.31	4.95	158.15	126.18	24.48
....	....	....	....	....	....	....	....
313.32	424.12	631.86	105.59	199.52	943.32	366.01	372.90
....	....	....	....	....	....	....	....
239.70	565.88	1,063.28	485.89	528.93	926.17	149.45	90.03
270.15	802.91	937.79	356.80	329.07	817.51	394.48	215.12
3,965.22	5,612.77	8,209.38	2,746.79	6,899.75	12,495.62	4,118.04	2,522.36
452.70	2,017.02	2,011.66	345.63	976.91	1,651.69	219.00	557.25
....	....	....	....	....	....	....	....
236.00	464.00	565.00	272.00	359.00	578.00	362.00	228.00
216.70	1,553.02	1,446.66	73.63	617.91	1,073.69	....	329.25
....	....	....	....	....	....	143.00	....
103	118	206	51	118	320	155	118
39	41	60	18	52	99	27	18
2	5	7	2	6	13	2	4
144	164	273	71	176	432	184	140

STATEMENT

Detailed Operating Reports of Electrical Departments of

GEORGIAN BAY SYSTEM—Concluded					EASTERN SYSTEM
Municipality	Windermere*	Wingham	Woodville	GEORGIAN BAY SYSTEM SUMMARY	Alexandria
Population	123	2,362	405		2,300
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	826.01	13,012.04	1,950.65	393,611.08	7,521.20
Commercial light service	447.40	7,839.83	1,082.02	218,866.51	4,350.80
Commercial power service		11,521.11	1,051.68	308,547.61	4,562.42
Municipal power		325.80		17,605.25	1,780.18
Street lighting	189.50	3,597.00	482.00	91,150.38	2,623.00
Merchandise		428.25		1,848.12	
Miscellaneous	1,250.00	868.73	279.91	19,472.59	199.46
Total earnings	2,712.91	37,592.76	4,846.26	1,051,101.54	21,037.06
EXPENSES					
Power purchased	1,274.83	19,298.58	2,641.78	709,617.34	13,369.21
Substation operation		2,226.98		8,143.89	
Substation maintenance				1,277.19	
Distribution system, operation and maintenance	35.55	2,478.14	307.56	51,492.95	1,895.10
Line transformer maintenance				1,411.30	
Meter maintenance				5,563.47	
Consumers' premises expenses				35.27	
Street lighting, operation and maintenance		205.93	24.69	9,935.71	328.47
Promotion of business				228.62	
Billing and collecting		673.11		17,024.41	
General office, salaries and expenses	113.17	766.91	292.52	41,645.81	1,606.71
Undistributed expenses		487.95		9,035.74	
Truck operation and maintenance		166.09		4,275.25	
Interest	299.26	2,955.78	211.88	42,330.19	1,769.12
Sinking fund and principal payments on debentures		3,369.60	196.31	54,212.34	2,348.59
Total expenses	1,722.81	32,629.07	3,674.74	956,229.48	21,317.20
Gross surplus	990.10	4,963.69	1,171.52	94,872.06	
Gross loss					280.14
Depreciation	104.00	2,416.00	194.00	54,452.40	1,164.00
Net surplus	886.10	2,547.69	977.52	40,419.66	
Net loss					1,444.14
NUMBER OF CONSUMERS					
Domestic service	43	553	100	19,289	310
Commercial light service	7	161	30	4,626	98
Power service		25	3	651	13
Total	50	739	133	24,566	421

*5 months' operation.

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1930

ONTARIO

Apple Hill P.V.	Athens 602	Belleville 13,267	Bloomfield 540	Brighton* 1,311	Brockville 9,191	Cardinal* 1,284	Carleton Place 4,293
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
983.37	4,359.11	81,518.07	2,970.96	12,179.25	36,776.61	1,762.98	18,611 03
723.72	2,334.98	57,241.65	988.56	6,638.60	23,669.57	694.16	9,247.04
318.62	122.26	40,588.41	2,470.44	4,587.42	36,535.87	239.77	19,665.06
....	....	9,681.98	....	....	6,748.60	....	2,215.37
458.40	1,846.00	9,877.19	826.00	2,226.15	8,781.00	506.67	3,411.13
....	....	882.65	....	201.90	....	....	....
....	....	3,672.85	117.26	....	6,544.72	....	1,218.77
2,484.11	8,662.35	203,462.80	7,373.22	25,833.32	119,056.37	3,203.58	54,368.40
1,529.57	4,138.23	105,851.38	4,838.35	10,193.04	63,698.08	1,702.99	29,487.17
....	....	....	....	....	5,394.16	....	....
....	....	....	....	....	409.09	....	32.77
49.04	307.61	3,594.43	134.19	2,616.43	3,546.38	95.80	2,416.78
....	....	434.36	....	59.44	157.22	....	92.99
....	....	803.58	....	177.81	2,146.13	137.85	251.44
....	....	645.96	....	88.86	....	....	....
55.42	111.15	1,328.03	65.90	220.81	1,290.53	131.18	404.67
....	....	....	....	....	75.90	....	....
....	....	3,090.78	....	777.54	1,122.73	....	1,455.08
315.38	301.21	7,799.48	332.76	3,129.90	5,816.08	336.69	3,176.78
....	....	2,017.19	....	1,503.18	2,197.40	....	434.31
....	....	1,282.78	....	....	790.22	....	831.91
278.11	1,004.80	6,596.43	450.33	1,583.59	5,879.55	500.00	2,812.69
255.20	423.60	6,000.00	339.06	646.66	8,614.00	....	2,023.22
2,482.72	6,286.60	139,444.40	6,160.59	20,997.26	101,137.47	2,904.51	43,419.81
1.39	2,375.75	64,018.40	1,212.63	4,836.06	17,918.90	299.07	10,948.59
....	....	....	....	....	....	....	....
140.00	368.00	3,840.00	390.00	608.00	6,569.00	100.00	1,684.00
....	2,007.75	60,178.40	822.63	4,228.06	11,349.90	199.07	9,264.59
138.61	....	....	....	....	....	....	....
38	125	3,028	149	406	2,406	245	908
17	42	507	24	104	425	35	182
1	1	93	10	10	71	2	20
56	168	3,628	183	520	2,902	282	1,110

*5 months' operation.

STATEMENT

Detailed Operating Reports of Electrical Departments of

EASTERN ONTARIO SYSTEM—Continued

Municipality	Chesterville	Finch	Havelock	Kemptville	Kingston
Population	965	377	1,421	1,298	21,616
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	4,805.86	2,111.18	6,631.08	6,382.04	98,839.73
Commercial light service	2,239.60	1,729.66	1,888.80	3,921.06	71,238.20
Commercial power service	3,200.30	912.48	5,891.94	4,400.85	68,790.04
Municipal power					8,017.20
Street lighting	1,032.00	620.00	1,620.00	1,830.00	20,000.00
Merchandise	373.04			551.83	
Miscellaneous	448.91		236.66	957.70	3,200.53
Total earnings	12,099.71	5,373.32	16,268.48	18,043.48	270,085.70
EXPENSES					
Power purchased	8,982.77	2,815.84	10,536.75	8,387.43	105,665.49
Substation operation					4,723.85
Substation maintenance					10,121.04
Distribution system, operation and maintenance	910.30	141.40	979.27	1,835.05	17,643.14
Line transformer maintenance					1,407.13
Meter maintenance					4,577.52
Consumers' premises expenses					2,038.00
Street lighting, operation and maintenance	108.10	58.99	77.40	195.00	6,239.91
Promotion of business					187.35
Billing and collecting					6,799.09
General office, salaries and expenses	708.01	230.44	391.34	1,048.23	9,780.06
Undistributed expenses					13,819.11
Truck operation and maintenance			146.33	278.77	3,637.33
Interest	185.42	431.96	1,377.56	1,313.58	11,402.59
Sinking fund and principal payments on debentures	162.52	213.81	1,490.81	534.25	11,010.45
Total expenses	11,057.12	3,892.44	14,999.46	13,592.31	209,052.06
Gross surplus	1,042.59	1,480.88	1,269.02	4,451.17	61,033.64
Gross loss					
Depreciation	525.00	215.00	748.00	763.00	17,123.00
Net surplus	517.59	1,265.88	521.02	3,688.17	43,910.64
Net loss					
NUMBER OF CONSUMERS					
Domestic service	212	70	279	297	5,374
Commercial light service	57	34	57	82	863
Power service	3	1	3	7	140
Total	272	105	339	386	6,377

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1930

Lakefield 1,423	Lanark 581	Lancaster 560	Lindsay 7,056	Madoc 1,067	Marmora 1,023	Martintown P.V.	Maxville 746
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
6,387.28	2,427.34	2,017.16	40,094.36	4,182.21	3,458.11	858.60	3,217.89
4,774.91	1,239.79	2,284.94	23,776.28	2,968.35	1,674.09	869.79	2,076.38
2,759.85	120.69	1,408.74	27,171.64	1,014.31	117.02	....	308.59
....	....	....	3,032.52	....	....	....	....
1,872.00	629.00	1,495.00	8,052.50	1,494.00	1,566.00	300.00	1,792.06
....	....	....	286.70	....	....	....	....
852.79	120.03	....	2,000.00	32.30	183.29	82.83	....
16,646.83	4,536.85	7,205.84	104,414.00	9,691.17	6,998.51	2,111.22	7,394.92
7,474.43	2,516.24	4,336.92	58,070.94	7,482.15	3,731.37	1,209.30	3,707.86
....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	....
1,654.36	55.40	52.80	4,322.23	420.23	111.68	67.45	249.15
....	....	....	169.97	....	....	....	....
....	....	....	994.33	57.74	....	....	....
....	....	....	484.20	....	....	....	....
67.12	26.86	67.79	1,725.49	163.66	48.70	47.44	174.41
....	....	....	613.39	....	....	....	....
....	....	....	2,621.00	....	....	....	....
626.73	213.48	338.81	6,680.99	513.03	496.44	94.48	384.69
....	....	....	1;966.32	....	....	....	....
....	....	....	824.98	....	....	....	....
2,053.57	420.16	661.63	6,050.48	131.46	798.62	247.53	601.70
686.39	389.94	597.06	4,128.10	386.56	887.81	275.57	742.95
12,562.60	3,622.08	6,055.01	88,652.42	9,154.83	6,074.62	1,941.77	5,860.71
4,084.23	914.77	1,150.83	15,761.58	536.34	923.89	169.45	1,534.21
....	....	....	....	....	....	....	....
931.00	221.00	244.00	2,902.00	305.00	484.00	117.00	424.00
3,153.23	693.77	906.83	12,859.58	231.34	439.89	52.45	1,110.21
....	....	....	....	....	....	....	....
305	124	73	1,825	267	188	33	141
80	36	41	330	98	47	25	48
7	2	1	71	6	2	....	2
392	162	115	2,226	371	237	58	191

STATEMENT

Detailed Operating Reports of Electrical Departments of

EASTERN ONTARIO SYSTEM—Continued

Municipality	Napanee*	Norwood	Omemee	Oshawa	Ottawa
Population	2,990	764	481	24,194	122,731
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	32,531.36	4,689.41	2,486.29	187,012.54	325,443.96
Commercial light service	19,420.55	2,546.90	1,171.33	64,912.07	157,929.08
Commercial power service	20,195.09	2,036.31	294.13	200,117.11	65,998.63
Municipal power	816.64	....	....	7,202.69	32,390.79
Street lighting	5,434.21	1,569.00	924.00	10,502.27	69,450.10
Merchandise	1,584.77	....	....	....	....
Miscellaneous	3,746.49	244.04	....	3,380.38	....
Total earnings	83,729.11	11,085.66	4,875.75	473,127.06	651,212.56
EXPENSES					
Power purchased	40,822.83	4,779.84	2,676.59	330,466.76	287,125.43
Substation operation	....	....	....	....	20,014.05
Substation maintenance	....	....	....	....	....
Distribution system, operation and maintenance	5,415.39	693.99	417.86	9,457.27	29,820.44
Line transformer maintenance	595.53	....	....	498.93	499.94
Meter maintenance	1,449.36	....	....	6,253.50	9,236.15
Consumers' premises expenses	81.57	....	....	45.12	....
Street lighting, operation and maintenance	844.21	25.44	114.76	858.18	28,316.24
Promotion of business	180.41	....	....	....	9,240.62
Billing and collecting	1,615.01	....	....	10,258.55	39,263.77
General office, salaries and expenses	3,884.15	444.00	277.45	11,481.22	20,125.00
Undistributed expenses	4,043.75	....	....	3,461.71	39,241.47
Truck operation and maintenance	824.04	168.40	....	2,275.30	....
Interest	4,449.04	1,738.19	396.32	13,860.48	42,638.19
Sinking fund and principal payments on debentures	1,992.43	861.59	638.37	9,625.65	20,244.52
Total expenses	66,197.72	8,711.45	4,521.35	398,542.67	545.765.82
Gross surplus	17,531.39	2,374.21	354.40	74,584.39	105,446.74
Gross loss	....	....	....	....	....
Depreciation	1,640.00	904.00	499.00	7,303.00	60,177.00
Net surplus	15,891.39	1,470.21	....	67,281.39	45,269.74
Net loss	....	....	144.60	....	....
NUMBER OF CONSUMERS					
Domestic service	749	209	127	6,339	11,889
Commercial light service	192	65	41	513	1,442
Power service	32	4	6	102	213
Total	973	278	174	6,954	13,544

*15 months' operation.

"B"—Continued

Hydro Municipalities for Year Ended December 31, 1930

Perth 3,698	Peterboro' 22,012	Picton 3,315	Port Hope 4,600	Prescott 2,757	Richmond 362	Russell P.V.	Smiths Falls 7,178
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
21,286.05	108,772.60	19,842.24	36,132.37	15,035.58	1,561.11	2,533.07	40,494.86
13,803.67	63,240.39	10,821.77	20,909.91	10,029.98	1,718.90	1,465.83	15,433.50
13,361.48	100,788.12	8,930.84	31,334.86	3,884.00	....	285.79	27,790.84
2,106.38	6,469.66	2,335.46	2,500.60	1,582.69	....	....	1,343.55
2,094.46	18,960.54	4,317.04	6,702.45	3,425.00	600.00	1,012.00	6,812.94
1,994.46	....	1,665.76	....	....	....	....	162.40
1,069.07	4,759.30	1,417.12	108.08	488.55	....	....	1,908.15
55,715.57	302,990.61	49,330.23	97,688.27	34,445.80	3,880.01	5,296.69	93,946.24
25,941.12	174,783.70	32,784.86	54,203.19	21,515.13	1,893.27	3,482.36	40,115.95
371.68	6,111.10	....	....	1,580.36	....	....	1,601.00
....	1,138.34	....	....	21.50	....	....	55.45
1,855.95	8,976.35	1,939.63	3,105.49	2,315.54	89.80	157.86	3,977.48
363.55	907.37	138.34	238.87	....	....	....	....
139.43	5,195.27	175.35	1,063.07	86.55	....	....	613.31
....	510.00	....	48.31	....	....	....	....
343.10	3,813.89	1,252.20	414.28	568.44	12.10	179.04	1,407.02
....	....	....	....	....	....	....	....
1,380.38	7,283.57	1,086.28	1,800.77	1,046.23	....	....	2,838.47
2,560.84	6,801.20	3,294.43	5,637.00	2,104.60	401.81	269.26	3,730.79
663.80	8,230.10	559.93	1,314.31	562.07	....	....	1,347.77
735.87	4,216.80	421.32	653.51	....	....	....	649.89
3,213.13	26,630.78	29.42	4,376.87	382.33	460.52	474.75	6,403.13
1,527.38	14,263.54	509.26	3,000.00	320.81	187.30	355.29	10,349.88
39,096.23	268,862.01	42,191.02	75,855.67	30,503.56	3,044.80	4,918.56	73,090.14
16,619.34	34,128.60	7,139.21	21,832.60	3,942.24	835.21	378.13	20,856.10
....	....	....	....	....	....	....	....
2,682.00	14,109.00	1,606.00	2,080.00	2,357.00	162.00	247.00	5,225.00
13,937.34	20,019.60	5,533.21	19,752.60	1,585.24	673.21	131.13	15,631.10
....	....	....	....	....	....	....	....
854	5,160	964	1,191	649	44	103	1,666
187	747	191	188	170	23	33	272
27	157	55	56	21	....	1	45
1,068	6,064	1,210	1,435	840	67	137	1,983

STATEMENT

Detailed Operating Reports of Electrical Departments of

EASTERN ONTARIO SYSTEM—Concluded

Municipality	Stirling	Warkworth	Wellington	Whitby	Williamsburg
Population	879	P.V.	912	5,307	P.V.
EARNINGS	$ c.	$ c.	$ c.	$ c.	$ c.
Domestic service	6,438.57	2,002.15	4,313.87	19,038.11	1,378.31
Commercial light service	4,567.45	1,407.27	1,947.34	10,117.17	474.11
Commercial power service	2,096.78		3,222.39	14,784.94	190.28
Municipal power	351.06			2,070.65	
Street lighting	968.04	612.00	953.66	3,313.34	204.00
Merchandise	257.63				
Miscellaneous	364.76	151.08		652.20	86.80
Total earnings	15,044.29	4,172.50	10,437.26	49,976.41	2,333.50
EXPENSES					
Power purchased	7,102.85	2,569.60	6,090.15	30,168.29	1,388.35
Substation operation	163.17				
Substation maintenance				147.52	
Distribution system, operation and maintenance	1,147.12	115.98	936.68	2,805.45	57.90
Line transformer maintenance	3.30			92.40	
Meter maintenance				419.62	
Consumers' premises expenses					
Street lighting, operation and maintenance	249.35	26.77	152.09	842.73	47.26
Promotion of business					
Billing and collecting	550.00			1,531.41	
General office, salaries and expenses	1,070.77	177.44	580.51	1,308.21	106.00
Undistributed expenses				373.33	
Truck operation and maintenance	290.93			361.62	
Interest		612.94	559.10	2,838.48	74.76
Sinking fund and principal payments on debentures		186.20	532.18	1,130.73	172.91
Total expenses	10,577.49	3,688.93	8,850.71	42,019.79	1,820.18
Gross surplus	4,466.80	483.57	1,586.55	7,956.62	513.32
Gross loss					
Depreciation	894.00	181.00	650.00	2,477.83	116.00
Net surplus	3,572.80	302.57	936.55	5,478.79	397.32
Net loss					
NUMBER OF CONSUMERS					
Domestic service	265	91	265	787	55
Commercial light service	90	41	61	146	19
Power service	8		8	15	1
Total	363	132	334	948	75

"B"—Concluded

Hydro Municipalities for Year Ended December 31, 1930

		THUNDER BAY SYSTEM				
Winchester 1,004	EASTERN ONTARIO SYSTEM SUMMARY	Fort William 24,786	Nipigon P.V.	Port Arthur 19,362	THUNDER BAY SYSTEM SUMMARY	ALL SYSTEMS GRAND SUMMARY
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
5,670.68	1,184,758.55	200,989.21	2,267.95	111,393.27	314,650.43	10,542,903.89
2,883.71	631,371.86	67,540.06	2,036.21	61,070.20	130,646.47	5,961,383.23
993.73	721,492.04	39,638.77	....	875,655.57	915,294.34	9,340,653.28
....	90,646.02	23,469.80	....	37,341.25	60,811.05	2,111,482.38
1,062.00	211,775.15	17,475.09	640.00	15,882.45	33,997.54	1,674,528.03
478.27	8,439.41	....	....	....	....	28,954.60
408.30	38,652.42	....	....	17,014.66	17,014.66	581,914.78
11,496.69	2,887,135.45	349,112.93	4,944.16	1,118,357.40	1,472,414.49	30,241,820.19
7,997.13	1,535,632.91	223,620.85	1,590.43	732,584.03	957,795.31	17,323,077.97
....	39,959.37	6 414.88	....	22,466.40	28,881.28	479,502.48
....	11,925.71	761.22	....	5,235.99	5,997.21	320,716.48
953.45	117,337.85	10,287.14	190.06	14,331.94	24,809.14	991,972.86
....	5,659.34	1,433.33	....	531.65	1,964.98	96,746.35
....	33,778.01	8,763.31	97.75	3,536.32	12,397.38	278,379.43
....	3,942.02	120.72	....	....	120.72	317,902.45
182.45	52,586.58	6,870.64	25.66	4,700.45	11,596.75	372,211.17
....	10,297.67	....	....	3,626.98	3,626.98	249,070.05
....	84,520.66	5,489.89	....	5,162.44	10,652.33	745,159.02
937.35	109,513.70	8,563.79	497.32	15,472.88	24,533.99	907,226.89
....	81,735.75	4,151.52	....	13,350.94	17,502.46	523,862.96
....	18,390.00	....	....	2,305.06	2,305.06	112,029.82
451.52	156,113.83	21,527.72	453.32	20,562.36	42,543.40	2,219,791.95
322.68	108,377.27	12,318.33	363.79	9,128.65	21,810.77	1,828,484.12
10,844.58	2,369,770.67	310,323.34	3,218.33	852,996.09	1,166,537.76	26,766,134.00
652.11	517,364.78	38,789.59	1,725.83	265,361.31	305,876.73	3,475,686.19
....	....	....	....	....	....	....
538.00	143,712.83	9,762.00	362.00	24,571.85	34,695.85	1,574,991.68
114.11	373,651.95	29,027.59	1,363.83	240,789.46	271,180.88	1,900,694.51
....	....	....	....	....	....	....
273	48,483	5,628	109	4,128	9,865	426,601
65	7,718	883	38	749	1,670	70,385
3	1,221	100	....	99	199	12,474
341	57,422	6,611	147	4,976	11,734	509,460

STATEMENT "C"

Street Lighting Installation in Hydro Municipalities, December 31, 1930, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
				$ c.	$ c.	$ c.
Acton.........	1,903	127	80 c.p. *s*	9.00	1,758.00	0.92
		61	100 watt *m*	9.00		
		1	150 watt *m*	12.00		
		3	300 watt *m*	20.00		
Agincourt.....	....	52	100 watt *m*	13.00	676.00	**
Ailsa Craig....	500	1	200 watt *m*	18.00	568.00	1.14
		55	100 watt *m*	10.00		
Alexandria....	2,300	94	100 watt *m*	17.00	2,623.00	1.14
		41	200 watt *m*	25.00		
Alliston.......	1,342	102	100 c.p. *s*	20.00	2,051.98	1.53
		12	100 watt *m*	18.00		
Alvinston.....	612	84	100 watt *m*	20.00	1,854.00	3.02
		6	200 watt *m*	29.00		
Amherstburg...	2,987	80	100 c.p. *s*	12.00	1,972.38	0.66
		9	250 c.p. *s*	26.00		
		12	300 watt *m*	30.00		
		22	200 watt *m*	20.00		
Ancaster Twp..	....	38	150 watt *m*	14.00	671.83	**
		26	100 watt *m*	11.50		
Apple Hill.....	....	27	100 watt *m*	17.00	458.40	**
Arkona.......	371	48	100 watt *m*	20.00	960.00	2.59
Arthur........	952	87	100 watt *m*	19.00	1,765.02	1.85
		7	200 watt *m*	32.00		
Athens........	602	40	100 watt *m*	22.00	1,846.00	3.07
		23	200 watt *m*	42.00		
Aylmer.......	1,992	160	100 watt *m*	10.00	2,225.00	1.11
		25	300 watt *m*	25.00		
Ayr...........	781	88	100 watt *m*	10.00	988.00	1.27
		3	500 watt *m*	36.00		
Baden........	....	65	100 watt *m*	8.00	520.00	**
Barrie........	7,311	458	150 c.p. *s*	8.00	5,123.00	0.70
		15	100 watt *m*	15.00		
		41	200 watt *m*	18.00		
		23	300 watt *m*	22.00		
Barton Twp...	....	18	100 watt *m*	14.00	252.00	**
Beachville.....	....	48	100 watt *m*	11.00	528.00	**

**Population not shown in Government statistics. *s*Series system. *m*Multiple system.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1930, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
				$ c.	$ c.	$ c.
Beaverton.....	970	6	500 watt *m*	30.00	1,012.34	1.04
		88	100 watt *m*	8.00		
		1	100 watt *m*	8.00		
		20	100 watt *m*	6.00		
Beeton........	560	64	150 c.p. *s*	17.00	1,326.00	2.37
		14	100 watt *m*	17.00		
Belle River....	768	75	100 watt *m*	11.00	825.00	1.07
Belleville......	13,267	557	100 c.p. *s*	10.00	9,877.19	0.74
		52	1,000 c.p. *s*	55.00		
		24	250 c.p. *s*	30.00		
		55	300 watt *m*	35.00		
Blenheim......	1,631	136	150 c.p. *s*	12.00	2,330.00	1.42
		4	400 c.p. *s*	28.00		
		13	600 c.p. *s*	37.00		
Bloomfield.....	540	59	100 c.p. *s*	14.00	826.00	1.53
Blyth.........	618	100	100 watt *m*	13.00	1,300.00	2.11
Bolton........	600	51	100 watt *m*	12.00	943.27	1.57
		23	200 watt *m*	21.00		
Bothwell......	603	66	100 watt *m*	11.00	1,292.92	2.14
		21	300 watt *m*	27.00		
Bradford......	884	60	150 c.p. *s*	18.00	1,206.00	1.36
		7	150 watt *m*	18.00		
Brampton.....	4,993	638	100 watt *m*	8.00	5,225.65	1.05
		2	500 watt *m*	35.00		
Brantford.....	29,287	145	1,500 c.p. *s*	45.00	33,977.05	1.16
		3,480	100 watt *m*	7.50		
		10	150 watt *m*	8.50		
		12	200 watt *m*	11.00		
		2	500 watt *m*	45.00		
		20	750 watt *m*	46.00		
Brantford Twp.	....	351	100 watt *m*	13.00	4,563.00	**
Brechin.......	....	25	100 watt *m*	18.00	450.00	**
Bridgeport....	....	57	100 watt *m*	10.00	570.00	**
Brigden.......	....	42	100 watt *m*	14.00	1,098.42	**
		21	200 watt *m*	25.00		
Brighton......	1,311	137	100 c.p. *s*	13.00	2,226.15	†
Brockville.....	9,191	583	100 c.p. *s*	11.00	8,781.00	0.96
		15	1-Lt. stds. *m*	17.00		
		38	3-Lt. stds. *m*	21.00		
		52	5-Lt. stds. *m*	24.00		
		6	300 watt *m*	24.00		

**Population not shown in Government statistics. *s*Series system. *m*Multiple system.
†15 months' operation.

STATEMENT "C".—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1930, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to mnnicipality per annum	Cost per capita
				$ c.	$ c.	$ c.
Brussels	706	79	100 watt *m*	12.00	1,272.00	1.80
		18	200 watt *m*	18.00		
Burford	....	67	100 watt *m*	12.00	813.00	**
Burgessville	....	23	100 watt *m*	13.00	299.00	**
Caledonia	1,475	164	100 watt *m*	8.00	1,634.88	1.01
		25	200 watt *m*	13.00		
Campbellville	....	19	100 watt *m*	24.00	456.00	**
Cannington	878	66	100 watt *m*	13.00	954.00	1.09
		3	500 watt *m*	32.00		
Cardinal	1,284	46	100 watt *m*	20.00	506.67	†
		6	100 watt *m*	20.00		
		4	100 watt *m*	20.00		
Carleton Place	4,293	62	60 watt *m*	10.00	3,411.13	0.79
		95	200 watt *m*	15.00		
		67	300 watt *m*	20.00		
Cayuga	671	77	100 watt *m*	20.00	1,539.96	2.29
Chatham	16,104	710 ord.	150 c.p. *s*	13.00	16,102.76	0.99
		33 ord.	250 c.p. *s*	16.00		
		31 ord.	600 c.p. *s*	30.00		
		108 orn.	1,000 c.p. *s*	38.00		
		76 orn.	600 c.p. *s*	30.00		
		37 orn.	150 c.p. *s*	12.00		
		2 orn.	250 watt *m*	24.00		
Chatsworth	257	41	100 watt *m*	11.00	451.00	1.76
Chesley	1,772	114	150 c.p. *s*	14.00	1,594.84	0.90
Chesterville	965	86	100 watt *m*	12.00	1,032.00	1.07
Chippawa	1,171	89	100 watt *m*	12.00	1,036.00	0.88
Clifford	461	59	100 watt *m*	14.00	789.83	1.71
Clinton	1,937	159	150 c.p. *s*	11.00	1,968.01	1.01
		11	100 watt *m*	11.00		
		1	500 watt *m*	55.00		
Coldwater	615	47	100 watt *m*	11.00	571.00	0.93
		6	60 watt *m*	9.00		
Collingwood	6,126	421	150 c.p. *s*	8.00	3,354.66	0.55
Comber	....	43	100 watt *m*	12.00	732.00	**
		12	200 watt *m*	18.00		
Cookstown	....	56	150 c.p. *s*	17.00	952.00	**

**Population not shown in Government statistics. *s*Series system. *m*Multiple system

†6, 2, and 4 months' operation respectively.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1930, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
				$ c.	$ c.	$ c
Cottam	....	29	100 watt *m*	15.00	403.00	**
Courtright	394	43	100 watt *m*	18.00	774.00	1.96
Creemore	610	59	100 watt *m*	10.00	590.00	0.97
Dashwood	....	41	100 watt *m*	12.00	492.00	**
Delaware	....	21	100 watt *m*	12.00	252.00	**
Dorchester	....	55	100 watt *m*	11.00	587.16	**
Drayton	508	75	100 watt *m*	11.00	825.00	1.62
Dresden	1,465	129 15	100 c.p. *s* 50 watt *m*	14.00 4.36	1,865.55	1.27
Drumbo	....	39 1	100 watt *m* 250 watt *m*	13.00 31.00	538.00	**
Dublin	....	50	100 watt *m*	15.00	750.00	**
Dundalk	594	78	100 watt *m*	10.00	780.00	1.31
Dundas	5,052	316 8 1 9 54 54 3	100 watt *m* 200 watt *m* 250 watt *m* 500 watt *m* 500 watt *m* 24 watt *private* 40 watt *private*	12.00 16.00 36.00 36.00 49.00	3,592.31	0.71
Dunnville	3,450	27 245	600 watt *m* 100 watt *m*	45.00 11.00	4,160.38	1.21
Durham	1,722	110	150 c.p. *s*	16.00	1,759.60	1.02
Dutton	805	105	100 watt *m*	9.00	943.20	1.17
East Windsor	15,105	354 121 185	100 watt *m* 200 watt *m* 300 watt *m*	8.00 14.00 20.00	8,134.67	††
Elmira	2,795	190 8 1	100 watt *m* 200 watt *m* 1,000 watt *m*	9.00 12.00 50.00	1,835.17	0.65
Elmvale	....	60	100 watt *m*	11.00	652.64	**
Elmwood	....	23	150 watt *m*	21.00	483.00	**
Elora	1,244	101 1	100 watt *m* 250 watt *m*	16.00 36.00	1,652.00	1.32
Embro	424	54	100 watt *m*	13.00	702.00	1.65

**Population not shown in Government statistics.
††Part of cost paid direct in form of debenture charges. *s*Series system. *m*Multiple system.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1930, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
					$ c.	$ c.	$ c.
Erieau	210	21	100 watt	*m*	18.00	378.00	1.80
Essex	1,732	116	60 watt	*m*	11.00	2,159.35	1.24
		15	100 watt	*m*	11.00		
		4	200 watt	*m*	22.00		
		59	300 watt	*m*	26.00		
Etobicoke Twp.	....	1,176	100 watt	*m*	13.00	15,344.42	**
		22	100 watt	*m*	17.00		
Exeter	1,615	165	100 watt	*m*	9.00	1,899.00	1.17
		23	200 watt	*m*	18.00		
Fergus	2,286	129	100 watt	*m*	16.00	2,587.00	1.13
		30	150 watt	*m*	18.50		
Finch	377	31	100 watt	*m*	20.00	620.00	1.64
Flesherton	454	52	100 watt	*m*	10.00	545.00	1.20
		1	300 watt	*m*	25.00		
Fonthill	763	70	100 watt	*m*	15.00	1,138.00	1.49
Forest	1,415	123	100 watt	*m*	11.00	2,270.00	1.60
		131	60 watt	*m*	7.00		
Fort William	24,786	2	400 c.p.	*s*	20.00	17,475.09	0.71
		204	1,000 c.p.	*s*	45.00		
		73	600 c.p.	*s*	30.00		
		397	150 c.p.	*s*	8.50		
		202	100 watt	*m*	9.60		
		48	Arcs	*m*	45.00		
Galt	13,236	923	100 c.p.	*s*	9.00	21,746.50	1.64
		316	100 watt	*m*	12.00		
		152	300 watt	*m*	35.00		
		74	500 watt	*m*	40.00		
		100	200 watt	*m*	20.00		
Georgetown	1,992	170	100 watt	*m*	11.00	2,096.75	‡
		1	300 watt	*m*	19.00		
		16	100 watt	*m*	13.00		
Glencoe	759	111	100 watt	*m*	14.00	1,934.00	2.54
		19	200 watt	*m*	20.00		
Goderich	4,221	16	3-Lt. stds.	*m*	35.00	3,782.50	0.89
		8	200 watt	*m*	25.00		
		8	100 watt	*m*	15.00		
		3	Park Lts.	*m*	4.50		
		321	100 c.p.	*s*	9.00		
Grand Valley	583	52	100 watt	*m*	16.00	832.00	1.43
Granton	....	37	100 watt	*m*	10.00	370.00	**

**Population not shown in Government statistics. *s* Series system. *m* Multiple system
‡Includes Glen Williams.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1930, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
				$ c.	$ c.	$ c.
Gravenhurst...	1,776	115	100 c.p. *s*	10.00	2,172.00	.....
		7	250 c.p. *s*	11.00		
		6	100 c.p.† *s*	10.00		
		21	100 watt *m*	10.00		
		36	100 watt† *m*	10.00		
		16	300 watt *m*	35.00		
Guelph..	19,857	20	60 watt *m*	4.00	20,422.07	1.03
		1,411	100 watt *m*	10.00		
		35	200 watt *m*	12.50		
		4	300 watt *m*	18.75		
		9	500 watt *m*	25.00		
		58	550 watt *m*	34.00		
		40	750 watt 220 *m*	43.00		
		52	1,000 watt v. *m*	46.50		
		*1	1,000 watt *m*	140.00		
		*Airport Beacon.				
Hagersville...	1,246	100	100 watt *m*	12.00	1,200.00	0.95
Hamilton......	150,065	8,229	100 watt *m*	7.50	99,935.12	0.67
		1,442	200 watt *m*	11.00		
		1	200 watt *m*	70.00		
		8	300 watt *m*	18.00		
		33	300 watt *m*	26.00		
		5	300 watt *m*	34.00		
		122	500 watt *m*	32.00		
		447	500 watt *m*	37.00		
		66	750 watt *m*	55.00		
		1	1,000 watt *m*	70.00		
Hanover.......	2,626	91	150 c.p. *s*	27.00	3,472.41	1.32
		16	250 c.p. *s*	32.00		
		5	100 watt *m*	27.00		
		12	200 watt *m*	32.00		
Harriston.....	1,274	110	150 c.p. *s*	11.00	1,199.92	0.94
Harrow.......	....	21	100 watt *m*	12.00	854.60	**
		58	200 watt *m*	16.50		
Havelock......	1,421	60	100 c.p. *s*	18.00	1,620.00	1.14
		20	250 c.p. *s*	27.00		
Hensall.......	753	76	100 watt *m*	12.00	912.00	1.21
Hespeler.......	2,719	110	150 c.p. *s*	10.00	2,559.64	0.94
		39	250 c.p. *s*	16.00		
		11	400 c.p. *s*	20.00		
		4	400 c.p. *s*	30.00		
		30	150 watt *m*	10.00		
		7	300 watt *m*	35.00		
Highgate......	350	50	100 watt *m*	11.00	550.00	1.57
Holstein.......	....	14	100 watt *m*	35.00	490.00	**

**Population not shown in Government statistics. *s*Series system. *m*Multiple system.
†5 months only.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1930, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps		Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
					$ c.	$ c.	$ c.
Humberstone..	1,597	108	100 watt	*m*	12.00	1,296.00	0.81
Huntsville.....	2,608	39	100 c.p.	*s*	14.00	2,396.00	0.92
		15	250 c.p.	*s*	36.00		
		20	150 c.p.	*s*	18.00		
		27	50 watt	*m*	10.00		
		58	75 watt	*m*	10.00		
		10	50 watt	*m*	10.00		
Ingersoll......	5,050	320	100 c.p.	*s*	11.00	4,607.50	0.91
		15	100 c.p.	*s*	11.00		
		2	600 c.p.	*s*	28.00		
		28	1,000 c.p.	*s*	35.00		
Jarvis.........	471	70	100 watt	*m*	12.00	840.00	1.88
Kemptville....	1,298	90	100 watt	*m*	20.00	1,830.00	1.41
Kincardine....	2,352	127	150 c.p.	*s*	21.00	3,729.60	1.59
		16	150 c.p.	*s*	26.00		
		19	100 watt	*m*	15.00		
		15	200 watt	*m*	26.00		
		2	1,000 watt	*m*	130.00		
Kingston......	21,616	79	1,000 c.p.	*s*	....	20,000.00	0.92
		144	600 c.p.	*s*			
		287	600 c.p.	*s*			
		77	100 c.p.	*s*			
Kingsville....	2,223	138	250 c.p.	*s*	18.00	3,700.00	†
		100	60 watt	*m*	12.00		
Kirkfield......	....	23	100 watt	*m*	20.00	460.00	**
Kitchener.....	28,282	2,023	80 c.p.	*s*	8.00	30,174.93	1.06
		59	100 c.p.	*s*	8.00		
		44	16 c.p.	*s*	7.00		
		348	200 watt	*m*	15.00		
		34	250 c.p.	*m*	13.00		
		69	300 watt	*m*	17.50		
		30	300 watt	*m*	15.00		
		78	300 watt	*m*	20.00		
		168	500 watt	*m*	25.00		
		18	1,000 c.p.	*m*	25.00		
		2	600 c.p.	*m*	25.00		
Lakefield......	1,423	104	100 watt	*m*	18.00	1,872.00	1.32
Lambeth......	....	34	100 watt	*m*	12.00	435.00	**
		1	200 watt	*m*	21.00		
Lanark........	581	37	100 watt	*m*	17.00	629.00	1.08
Lancaster.....	560	41	100 watt	*m*	36.50	1,495.00	2.67
La Salle.......	628	66	100 watt	*m*	16.00	1,094.50	1.74

**Population not shown in Government statistics. *s*Series system. *m*Multiple system.
†Part of cost paid direct in form of debenture charges.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1930, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
				$ c.	$ c.	$ c.
Leamington	5,269	141	400 c.p. *s*	25.00	7,346.07	†
		38	600 c.p. *s*	31.00		
		164	100 watt *m*	13.00		
		24	200 watt *m*	17.00		
Lindsay	7,056	416	100 c.p. *s*	15.00	8,052.50	1.14
		27	1,000 c.p. *s*	70.00		
Listowel	2,545	161	60 watt *m*	9.00	3,591.06	1.41
		118	100 watt *m*	11.00		
		6	200 watt *m*	25.00		
		2	250 watt *m*	25.00		
		24	300 watt *m*	30.00		
		3	500 watt *m*	35.00		
London	71,310	1,997	150 c.p. *s*	11.00	50,160.45	0.70
		301	400 c.p. *s*	24.00		
		111	400 c.p. Span *s*	18.00		
		284	600 c.p. *s*	30.00		
		32	600 c.p. *s*	28.00		
		8	150 c.p. *s*	10.00		
		45	500 watt *m*	40.00		
		11	500 watt *m*	25.00		
		452	300 watt *m*	18.00		
		21	300 watt *m*	20.00		
		27	200 watt *m*	14.00		
London Twp.	....	54	100 watt *m*	12.00	664.50	**
		1	200 watt *m*	16.50		
Lucan	573	69	100 watt *m*	15.00	1,035.00	1.81
Lucknow	1,147	57	100 watt *m*	20.00	1,656.25	1.45
		16	200 watt *m*	31.00		
Lynden	....	39	100 watt *m*	10.00	388.97	**
Madoc	1,067	342	75 watt *m*	5.00	1,494.00	1.40
		7	150 watt *m*	6.00		
		3	300 watt *m*	12.00		
Markdale	798	84	150 c.p. *s*	8.00	672.00	0.84
Markham	969	80	100 watt *m*	14.00	1,340.00	1.38
		20	60 watt *m*	11.00		
Marmora	1,023	25	75 watt *m*	18.00	1,566.00	1.53
		40	100 watt *m*	18.00		
		22	150 watt *m*	18.00		
Martintown	....	15	100 watt *m*	20.00	300.00	**
Maxville	746	64	150 c.p. *s*	28.00	1,792.06	2.40
Meaford	2,729	171	150 c.p. *s*	13.00	3,166.90	1.16
		27	100 watt *m*	13.00		
		35	200 watt *m*	22.00		

**Population not shown in Government statistics. *s*Series system. *m*Multiple system.

†Part of cost paid direct in form of debenture charges.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1930, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
				$ c.	$ c.	$ c.
Merlin........	....	43	100 watt *m*	16.00	688.00	**
Merritton.....	2,575	307	100 watt *m*	9.00	2,773.00	1.07
Midland......	7,826	382 36 30	100 c.p. *s* 500 watt *m* 300 watt *m*	10.00 40.00 22.00	6,113.34	0.78
Milton........	1,775	206	100 watt *m*	9.00	1,845.00	1.04
Milverton.....	1,122	94 12	100 watt *m* 200 watt *m*	9.00 12.00	1,003.25	0.89
Mimico.......	5,762	197 200 46	100 watt *m* 200 watt *m* 300 watt *m*	15.00 23.00 30.00	8,448.96	1.46
Mitchell.......	1,645	229	100 c.p. *s*	9.00	2,061.27	1.25
Moorefield.....	....	25	100 watt *m*	15.00	375.00	**
Mount Brydges	....	46	100 watt *m*	11.00	506.00	**
Mount Forest..	1,823	39 135 16	150 c.p. *s* 150 c.p. *s* 100 watt *m*	14.00 12.00 12.00	2,358.00	1.29
Napanee......	2,990	26 124 40	320 c.p. *s* 100 c.p. *s* 300 watt *m*	37.00 16.00 32.00	5,434.21	1.82
Neustadt......	....	39	150 c.p. *s*	25.00	975.00	**
Newbury......	298	48	100 watt *m*	15.00	690.00	2.31
New Hamburg.	1,454	212 21	100 watt *m* 200 watt *m*	9.00 12.50	2,233.27	1.53
New Toronto..	5,622	205 26 58 126 2	75 watt *m* 100 watt *m* 200 watt *m* 500 watt *m* Intersection	15.00 16.00 19.00 30.00 28.00	8,429.04	1.50
Niagara Falls..	18,403	784 58 2 197 208 4 4	100 c.p. *s* 600 c.p. *s* 250 c.p. *s* 1,000 c.p. *s* 600 c.p. *s* 600 c.p. *s* 100 watt *m*	12.00 18.00 13.00 54.00 48.00 60.00 12.00	29,896.43	1.62
Niagara-on-the Lake........	1,547	204 22	100 watt *m* 200 watt *m*	11.00 18.00	2,629.92	1.70
Nipigon	....	32	100 watt *m*	20.00	640.00	**

**Population not shown in Government statistics. *s*Series system. *m*Multiple system.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1930, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
				$ c.	c.	$ c.
Norwich	1,213	111	100 watt *m*	10.00	2,100.00	1.73
		28	400 watt *m*	35.00		
Norwood	764	79	150 c.p. *s*	18.00	1,569.00	2.05
		6	150 c.p. *s*	20.00		
		1	150 c.p. *s*	27.00		
Oil Springs	466	41	100 watt *m*	18.00	738.00	1.58
Omemee	481	46	100 c.p. *s*	14.00	924.00	1.92
		10	250 c.p. *s*	28.00		
Orangeville	2,721	94	150 c.p. *s*	16.00	3,977.24	1.46
		33	400 c.p. *s*	21.00		
		38	300 watt *m*	48.00		
Oshawa	24,194	1	1,000 c.p. *s*	27.00	10,502.27	0.43
		820	100 c.p. *s*	10.00		
		47	100 c.p. *s*	13.00		
		39	100 watt *m*	11.00		
		109	150 watt *m*	12.00		
Ottawa	122,731	59	Arcs	45.00	51,155.73 18,294.37	0.41
		368	100 c.p. *s*	7.00		
		751	400 c.p. *s*	25.00		
		774	600 c.p. *s*	35.00		
		2,900	100 watt *m*	48c. per ft.		
		590	100 watt *m*	6.00		
Otterville	....	51	100 watt *m*	11.00	409.72	**
		12	200 watt *m*	16.00		
Owen Sound	12,304	390	150 c.p. *s*	11.00	10,917.25	0.89
		9	150 c.p. *s*	11.50		
		2	200 c.p. *s*	14.00		
		12	400 c.p. *s*	21.00		
		316	250 c.p. *s*	14.00		
		3	300 c.p. *s*	15.00		
		3	300 watt *m*	19.50		
		39	500 c.p. *s*	35.00		
Paisley	700	88	100 watt *m*	16.00	1,408.00	2.01
Palmerston	1,792	98	80 c.p. *s*	9.00	1,788.05	1.00
		8	100 c.p. *s*	10.00		
		8	250 c.p. *s*	25.00		
		1	40 watt *m*	9.00		
		10	60 watt *m*	9.00		
		2	100 watt *m*	10.00		
		4	150 watt *m*	10.00		
		2	200 watt *m*	25.00		
		13	300 watt *m*	25.00		
		1	500 watt *m*	35.00		
Paris	4,156	448	100 c.p. *s*	9.00	5,724.90	1.37
		13	400 c.p. *s*	35.00		
		25	500 c.p. *s*	45.00		

**Population not shown in Government statistics. *s*Series system. *m*Multiple system.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1930, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
				$ c.	$ c.	$ c.
Parkhill.......	959	78	100 watt *m*	14.00	1,438.00	1.50
		15	200 watt *m*	23.00		
Penetanguishene	3,615	188	100 c.p. *s*	10.00	1,880.00	0.52
Perth.........	3,698	67	100 c.p. *s*	15.00	2,094.46	0.57
		14	250 c.p. *s*	25.00		
		4	400 c.p. *s*	28.00		
		16	600 c.p. *s*	40.00		
Peterborough..	22,012	115	400 c.p. *s*	43.00	18,960.54	0.86
		260	60 watt *m*	9.00		
		374	100 watt *m*	10.00		
		445	300 watt *m*	18.00		
		1	500 watt *m*	34.00		
Petrolia.......	2,671	145	150 c.p. *s*	12.00	2,639.91	0.98
		24	600 c.p. *s*	38.00		
Picton........	3,315	35	250 c.p. *s*	20.00	4,317.04	1.30
		221	100 c.p. *s*	12.00		
Plattsville.....	....	34	100 watt *m*	16.00	544.00	**
Point Edward..	1,378	77	150 c.p. *s*	12.00	924.00	0.74
Port Arthur...	19,362	2,382	100 watt *m*	5.00	15,882.45	0.82
		154	300 watt *m*	10.00		
		172	500 watt *m*	15.00		
Port Colborne..	5,461	15	400 c.p. *s*	25.00	7,009.07	1.28
		78	600 c.p. *s*	28.00		
		124	200 watt *m*	17.00		
		228	100 watt *m*	12.00		
		26	100 watt *m*	14.00		
Port Credit....	1,400	113	100 watt *m*	10.00	3,354.00	2.39
		139	200 watt *m*	16.00		
Port Dalhousie.	1,656	127	100 watt *m*	12.50	1,612.50	0.97
		2	200 watt *m*	12.50		
Port Dover....	1,628	198	100 watt *m*	12.50	2,926.84	1.79
		19	300 watt *m*	30.00		
Port Hope.....	4,600	383	100 c.p. *s*	14.00	6,702.45	†
Port McNicoll..	831	46	100 watt *m*	11.00	506.00	0.61
Port Perry.....	1,185	99	100 watt *m*	14.00	1,397.17	1.18
Port Rowan...	681	53	100 watt *m*	24.00	1,242.00	1.82
Port Stanley...	583	174	100 watt *m*	11.00	1,914.00	3.28
Prescott.......	2,757	164	100 watt *m*	10.00	3,425.00	1.24
		105	2 Lt.-Brackets *m*	17.00		

**Population not shown in Government statistics. *s*Series system. *m*Multiple system.

†15 months' operation.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1930, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
				$ c.	$ c.	$ c.
Preston.......	5,884	343 9 40 6	150 c.p. *s* 250 watt *m* 500 watt *m* 5-Lt. stands. *m*	10.00 18.00 30.00 30.00	4,960.32	0.84
Priceville.....	....	14	100 watt *m*	40.00	560.00	**
Princeton.....	....	26	100 watt *m*	13.00	312.00	**
Queenston.....	....	34	100 watt *m*	16.00	543.96	**
Richmond.....	362	24	100 watt *m*	25.00	600.00	1.66
Richmond Hill.	1,170	6 17 99	200 watt *m* 100 watt *m* 75 watt *m*	16.00 12.00 11.00	1,389.00	1.19
Ridgetown....	1,983	193 1 19 65	150 c.p. *s* 1,000 c.p. *s* 500 watt *m* 100 watt *m*	11.00 40.00 38.00 11.00	3,397.15	1.71
Ripley........	423	5 44	200 watt *m* 100 watt *m*	26.00 41.00	1,349.00	3.19
Riverside......	4,603	206 78 74	100 watt *m* 150 watt *m* 200 watt *m*	11.00 14.50 18.00	4,682.74	1.02
Rockwood.....	....	83	100 watt *m*	9.00	747.00	**
Rodney.......	752	69 14	100 watt *m* 200 watt *m*	10.00 18.00	942.00	1.25
Russell........	....	46	100 watt *m*	22.00	1,012.00	**
St. Catharines..	24,094	3,307	100 watt *m*	7.50	24,778.77	1.03
St. George.....	....	38	100 watt *m*	8.00	297.55	**
St. Jacobs.....	....	46	100 watt *m*	10.00	445.00	**
St. Marys.....	4,072	234 136	100 c.p. *s* 250 c.p. *s*	8.00 12.00	3,496.66	0.86
St. Thomas....	16,567	1,069 114 2 26	100 c.p. *s* 600 c.p. *s* 600 c.p. *s* 250 c.p. *s*	9.00 34.00 32.00 13.00	14,066.89	0.85
Sandwich.....	10,655	16 87 14 17 240 292 10	600 c.p. *s* 400 c.p. *s* 400 c.p. *s* 400 c.p. *s* 100 c.p. *s* 100 c.p. *s* 100 watt *m*	35.00 26.00 28.00 28.00 12.00 13.00 13.00	10,455.21	0.98

**Population not shown in Government statistics. *s*Series system. *m*Multiple system.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1930, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
				$ c.	$ c.	$ c.
Sarnia	16,763	875	150 c.p. *s*	12.00	15,232.73	0.93
		17	500 c.p. *s*	34.00		
		82	1,000 c.p. *s*	43.00		
Scarboro Twp.	....	2	200 c.p. *s*	17.00	16,963.91	**
		219	100 c.p. *s*	15.00		
		317	300 watt *m*	27.50		
		7	200 watt *m*	17.00		
		418	100 watt *m*	15.00		
		19	40 watt *m*	12.00		
		2	60 watt *m*	18.00		
Seaforth	1,702	60	80 c.p. *s*	9.00	1,520.00	0.89
		58	100 c.p. *s*	10.00		
		20	300 watt *m*	20.00		
Shelburne	1,135	96	150 c.p. *s*	11.00	1,049.56	0.92
Simcoe	4,675	275	100 c.p. *s*	10.00	3,904.67	0.84
		27	1,000 c.p. *s*	40.00		
		3	150 watt *m*	10.00		
		8	200 watt *m*	10.00		
		2	500 watt *m*	53.00		
Smiths Falls	7,178	18	60 watt *m*	8.50	6,812.94	0.95
		146	100 watt *m*	17.00		
		1	200 watt *m*	21.00		
		197	300 watt *m*	21.00		
Springfield	393	50	100 watt *m*	11.00	550.00	1.40
Stamford Twp.	....	801	100 watt *m*	10.00	7,009.56	**
Stayner	968	77	150 c.p. *s*	11.00	1,117.00	1.15
		18	200 watt *m*	15.00		
Stirling	879	122	100 c.p. *s*	8.00	968.04	1.89
Stouffville	1,053	121	100 watt *m*	14.00	1,694.00	1.61
Stratford	18,671	858	100 c.p. *s*	10.00	15,907.55	0.85
		74	400 c.p. *s*	25.00		
		6	400 c.p. *s*	35.00		
		116	600 c.p. *s*	30.00		
		62	1,000 c.p. *s*	34.00		
		4	100 watt *m*	10.00		
		4	500 watt *m*	34.00		
Strathroy	2,737	330	100 c.p. *s*	9.00	3,819.96	1.40
		21	250 c.p. *s*	15.00		
		34	300 watt *m*	31.00		
Sunderland	....	33	100 watt *m*	18.00	594.00	**
Sutton†	833	22	200 watt *m*	17.00	1,823.50	.....
		109	100 watt *m*	13.00		
		10	100 watt *m*	13.00		

**Population not shown in Government statistics. *s*Series system. *m*Multiple system.
†10 lamps 3 months only.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1930, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
				$ c.	$.	$ c.
Tara..........	441	67	100 watt *m*	25.00	1,675.00	3.80
Tavistock.....	995	75	100 watt *m*	10.00	1,180.30	1.19
		36	200 watt *m*	12.00		
Tecumseh.....	2,260	61	100 watt *m*	12.00	1,089.00	0.48
		17	400 c.p. *s*	21.00		
Teeswater.....	817	36	150 c.p. *s*	25.00	1,700.00	2.08
		20	250 c.p. *s*	40.00		
Thamesford....	....	47	100 watt *m*	11.00	517.00	**
Thamesville...	886	61	100 watt *m*	9.00	1,059.00	1.20
		27	200 watt *m*	14.00		
		7	200 watt *m*	18.00		
Thedford......	535	69	100 watt *m*	15.00	1,035.00	1.93
Thorndale.....	....	31	100 watt *m*	12.00	372.00	**
Thornton......	....	21	100 watt *m*	40.00	840.00	**
Thorold.......	5,037	365	60 watt *m*	7.50	3,393.50	0.67
		40	100 watt *m*	8.00		
		28	200 watt *m*	12.00		
Tilbury.......	1,886	97	100 watt *m*	11.00	1,549.62	0.82
		25	200 watt *m*	19.50		
Tillsonburg....	3,166	268	100 c.p. *s*	8.00	2,560.48	0.81
		47	250 c.p. *s*	13.00		
		2	1,000 c.p. *s*	45.00		
Toronto.......	585,628	45,520	100 watt *m*	8.00–10.00	507,020.12	0.87
		2,899	200 watt *m*	18.00–23.00		
		67	250 watt *m*	20.00		
		1,373	300 watt *m*	28.00		
		114	500 watt *m*	45.00		
		5	1,000 watt *m*	90.00		
		363	5-lt. stds., 100 w *m*	47.50		
		68	1-lt. stds., 500 w *m*	47.50		
		395	1-lt. stds., 300 w *m*	50.00		
		24	1-lt. stds., 500 w *m*	52.50		
Toronto Twp..	....	405	100 watt *m*	12.00	4,641.89	**
		1	300 watt *m*	43.20		
Tottenham....	545	49	150 c.p. *s*	25.00	1,225.08	2.25
Uxbridge......	1,425	129	100 watt *m*	12.00	1,541.00	1.08
Victoria Harbor	1,104	78	100 watt *m*	9.00	702.00	0.64

**Population not shown in Government statistics. *s*Series system. *m*Multiple system.

STATEMENT "C"—Continued

Street Lighting Installation in Hydro Municipalities, December 31, 1930, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
				$ c.	c.	$ c.
Walkerville....	10,671	56	600 c.p. *s*	45.00	14,893.57	1.40
		242	100 watt *m*	8.00		
		550	150 watt *m*	11.00		
		102	200 watt *m*	13.00		
		184	300 watt *m*	18.00		
Wallaceburg...	4,360	186	150 c.p. *s*	12.00	2,975.00	0.68
		30	600 c.p. *s*	25.00		
		3	1,000 c.p. *s*	39.00		
Wardsville.....	214	35	75 watt *m*	20.00	700.00	3.27
Warkworth....	....	24	100 watt *m*	18.00	612.00	**
		6	200 watt *m*	30.00		
Waterdown....	874	75	100 watt *m*	11.00	930.00	1.06
		6	200 watt *m*	17.50		
Waterford.....	1,097	179	100 watt *m*	9.00	1,608.00	1.47
Waterloo......	7,782	125	100 c.p. *s*	10.00	7,227.14	0.93
		348	80 c.p. *s*	8.00		
		44	150 watt *m*	36.00		
		10	150 watt *m*	25.00		
		6	500 watt *m*	35.00		
		3	500 watt *m*	30.00		
		18	300 watt *m*	21.00		
		12	200 watt *m*	12.00		
		66	150 watt *m*	10.00		
Watford.......	1,045	89	100 watt *m*	12.50	1,325.07	1.27
		11	200 watt *m*	20.00		
Waubaushene..	....	41	100 watt *m*	8.00	328.00	**
Welland.......	10,054	168	600 c.p. *s*	30.00	11,209.04	1.11
		4	500 watt *m*	28.00		
		52	200 watt *m*	18.00		
		409	100 watt *m*	11.00		
		12	300 watt *m*	30.00		
Wellesley......	....	60	100 watt *m*	12.00	720.00	**
Wellington....	912	68	100 c.p. *s*	12.00	953.66	1.05
		37	100 c.p. *s*	12.00		
		32	250 c.p. *s*	19.00		
West Lorne....	777	83	100 watt *m*	10.00	1,010.04	1.30
		10	200 watt *m*	18.00		
Weston.......	4,425	110	600 c.p. *s*	30.00	7,549.75	1.71
		434	100 c.p. *s*	7.50		
		2	250 c.p. *s*	10.00		
		5	5-Lt. stds. *m*	21.00		
		2	100 watt *m*	7.50		
		2	25 watt *m*	2.50		
		20	300 watt *m*	11.00		
		2	Signs. *m*	110.00		

**Population not shown in Government statistics. *s*Series system. *m*Multiple system.

STATEMENT "C"—Concluded

Street Lighting Installation in Hydro Municipalities, December 31, 1930, showing Rate per Lamp, Cost to Municipality per Annum, and Cost per Capita.

Municipality	Population	Number of lamps	Size and style of lamps	Rate per lamp per annum	Total cost to municipality per annum	Cost per capita
				$ c.	$ c.	$ c.
Wheatley......	698	71	100 watt *m*	12.00	1,830.42	2.62
		40	300 watt *m*	26.00		
Whitby.......	5,307	99	100 c.p. *s*	10.00	3,313.34	0.62
		136	80 c.p. *s*	9.00		
		113	100 watt *m*	7.50		
		3	500 watt *m*	11.50		
Williamsburg..	....	17	100 watt *m*	12.00	204.00	**
Winchester....	1,004	118	100 watt *m*	9.00	1,062.00	1.06
Windermere†...	123	13	100 watt *m*	35.00	189.50	......
Windsor.......	68,569	66	1,000 c.p. *s*	46.00	85,266.83	1.24
		642	600 c.p. *s*	43.00		
		1,004	400 c.p. *s*	24.00		
		669	100 c.p. *s*	12.00		
		2,254	100 c.p. *s*	11.00		
Wingham.....	2,362	99	150 c.p. *s*	20.00	3,597.00	1.52
		22	200 c.p. *s*	33.00		
		27	200 watt *m*	33.00		
Woodbridge...	727	82	100 watt *m*	10.00	810.00	1.11
Woodstock....	10,687	514	100 c.p. *s*	8.00	7,171.44	0.67
		14	250 c.p. *s*	20.00		
		87	75 watt *m*	8.00		
		25	150 watt *m*	12.00		
		72	300 watt *m*	32.00		
Woodville.....	405	35	100 watt *m*	12.00	482.00	1.19
		4	200 watt *m*	20.00		
Wyoming.....	472	50	100 watt *m*	15.00	750.00	1.59
York, East, Township...	....	881	100 watt *m*	14.00	18,328.94	**
		238	300 watt *m*	26.00		
		15	500 watt *m*	29.00		
York, North, Township...	....	81	100 watt *m*	12.00	4,043.30	**
		19	100 watt *m*	13.00		
		18	100 watt *m*	13.50		
		12	100 watt *m*	15.00		
		34	150 watt *m*	32.00		
		65	200 watt *m*	23.00		
Zurich........	....	63	100 watt *m*	11.00	693.00	**

**Population not shown in Government statistics. *s*Series system. *m*Multiple system.
†5 months only.

STATEMENT "D"

Statistics Relating to the Supply of Electrical Energy to Consumers in Ontario Municipalities Served by The Hydro-Electric Power Commission

The following tabulation of various statistical data relating to the supply of electrical energy to consumers by individual municipalities receiving power at cost from the Commission sets forth, regarding the results of operation from the standpoint of the consumers, much useful and interesting information.

The policy and practice of the Commission has been, and is, to make as widespread and beneficial a distribution of electrical energy as possible, and to extend to every community that can economically be reached by transmission lines, the benefit of electrical service. Even where, in certain localities, by reason of the distance from a source of supply or of the smallness of the quantity of power required by the municipality, the cost per horsepower to the municipality—and, consequently, the cost of service to the consumer—must unavoidably be higher than in more favourably situated communities, service has not been withheld when the consumers were able and willing to pay the cost.

The accompanying diagram summarizes graphically certain data of Statement "D," respecting the average cost to the consumer. It will be observed that the total amount of the energy sold in municipalities where circumstances necessitate rates which result in the higher average costs to the consumer is relatively insignificant. With respect to power service, it should be noted that the statistics of Statement "D," and of the diagram, cover mainly retail power service supplied to the smaller industrial consumers. The average amount of power taken by the industrial consumers served by the municipalities is about 40 horsepower. The Commission serves certain large power consumers direct on behalf of the various systems of municipalities.

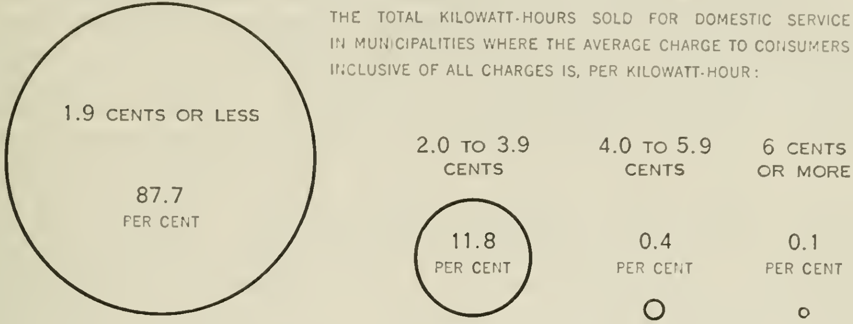
It should be kept in mind that the revenues reported in Statement "D," and used for purposes of calculating the net unit costs to the consumer, are the total revenues contributed by the consumers, and include, in addition to the cost of power, sums specifically applicable to the retirement of capital, and also operating surplus which is in part applied to retirement of capital or extension of plant and is in part returned in cash to the consumers.

It should specially be noted that average costs per kilowatt-hour or per horsepower if employed indiscriminately as a criterion by means of which to compare the rates or prices for electrical service in various municipalities, will give very misleading results. The average costs per kilowatt-hour, as given in Statement "D" for respective classes of service in each municipality, are simply statistical results obtained by dividing the respective revenues by the aggregate kilowatt-hours sold. As such, the data reflect the combined influence of a number of factors, of which the rates or prices to consumers are but one factor. Owing to the varying influence of factors other than the rates, it is seldom found that in any two municipalities the average cost per kilowatt-hour to the consumers, even of the same classification, is in proportion to the respective rates for service. Instances even occur where for a class of consumers in one municipality, the average costs per kilowatt-hour are substantially lower than for the same class in another municipality, even though the rates are higher.

COST OF ELECTRICAL SERVICE
IN MUNICIPALITIES SERVED BY THE
HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

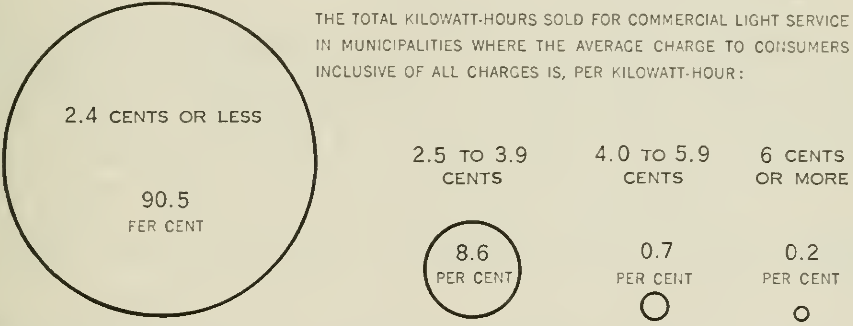
DOMESTIC SERVICE

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE TOTAL KILOWATT-HOURS SOLD FOR DOMESTIC SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER KILOWATT-HOUR:



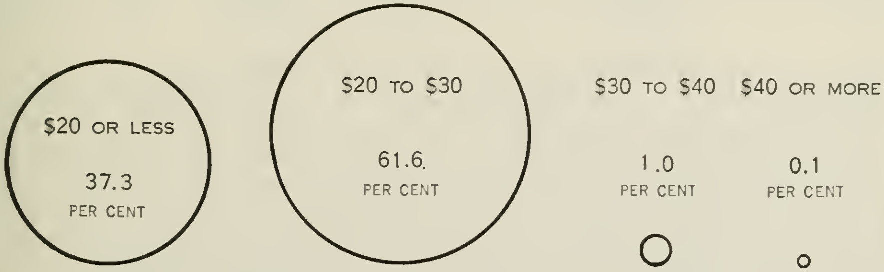
COMMERCIAL LIGHT SERVICE

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE TOTAL KILOWATT-HOURS SOLD FOR COMMERCIAL LIGHT SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER KILOWATT-HOUR:



POWER SERVICE SUPPLIED BY MUNICIPALITIES

THE AREAS OF THE CIRCLES REPRESENT PROPORTIONATELY THE AGGREGATE HORSEPOWER SOLD FOR POWER SERVICE IN MUNICIPALITIES WHERE THE AVERAGE CHARGE TO CONSUMERS INCLUSIVE OF ALL CHARGES IS, PER HORSEPOWER PER YEAR:



With respect to domestic service, for example, instances will be observed where two municipalities have identical prices or rates for domestic service, but the average cost per kilowatt-hour to the consumer varies by as much as 100 per cent. Such variations are principally due to differences in the extent of utilization of the service for the operation of electric ranges, water heaters and other appliances, an indication of which is afforded by the statistics of average monthly consumption.

In the case of power service, average unit costs are still less reliable as an indication of the relative rates for service in different municipalities. In the case of hydro-electric power supplied to industries at cost, the rate schedules incorporate charges both for demand and for energy consumption, and thus, although the quantity of power taken by a consumer—that is, the demand as measured in horsepower—is the most important factor affecting costs and revenues, it is not the only one. The number of hours the power is used in the month or year—which, in conjunction with the power, determines the energy consumption, as measured in kilowatt-hours—also affects the costs and revenues. Consequently, in two municipalities charging the same rates for power service, the average cost per horsepower to the consumer will vary in accordance with the consumers' average number of hours' use of the power per month. A greater average energy consumption per horsepower increases the average cost per horsepower and decreases the average cost per kilowatt-hour, to the consumer, and *vice versa.**

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*In view of the fact that the data of Statement "D" have been misinterpreted in the making of certain comparisons as to the cost of electricity in various territories, it is desirable to add a word of caution respecting their significance. Essentially, the average cost or revenue per kilowatt-hour is *not a criterion of rates* even with similar forms of rate schedules and for the same class of service. Particularly is this true when revenues and consumptions of all classes of service, and of all kinds of rate schedules, are indiscriminately lumped together in order to deduce a so-called "average cost or rate per kilowatt-hour" for all services.

In one community rates for each class of service, and the cost to every consumer in each class for any given service and consumption, may be substantially higher than in another community, and yet there may be in the former community, a lower "average revenue per kilowatt-hour." This will readily be perceived from a simple arithmetical example.

EXAMPLE.—Assume sales of electrical energy by two electric utilities, A and B, in each case 10,000,000 kilowatt-hours.

Class of service	CASE A Higher rates and lower revenues per kilowatt-hour			CASE B Lower rates and higher revenues per kilowatt-hour		
	Energy sales	Rate per kw-hr.	Revenue	Energy sales	Rate per kw-hr.	Revenue
	kw-hr.	cents	$	kw-hr.	cents	$
Residence..........	1,000,000	4	40,000	3,000,000	3	90,000
Power.............	9,000,000	1	90,000	7,000,000	0.75	52,500
Total...........	10,000,000	......	130,000	10,000,000	......	142,500
Average revenue..	1.3 cents per kw-hr.			1.425 cents per kw-hr.		

It will be observed that in Case A *the rates* both for residence and for power service are 33 per cent *higher* than in Case B, but the *average revenue* per kilowatt-hour is nearly 9 per cent less.

In this instance, the key to the situation lies in the *relative quantities* of energy sold to each class. Service to large power consumers entails a smaller capital investment in distribution lines and equipment and lower operating costs per kilowatt-hour delivered, than does service to domestic and to commercial light consumers, and even where the rates for all classes of service are low, produces a smaller average revenue per kilowatt-hour. Consequently, if one electrical utility as compared with another sells a larger proportion of its energy for power purposes, its "average revenue per kilowatt-hour" may easily be lower than that of the other utility even though its rates for every class of service are substantially higher.

Although the derived statistics of Statement "D" are valueless as a means of comparing the *rates* in one municipality with those in another, they nevertheless fulfil an important function in affording a general measure of the *economy of service* to consumers in the co-operating Ontario municipalities—an economy that has resulted primarily from the low rates themselves, and secondarily from the extensive use of the service that has been made economically possible by the low rates.

Actual bills rendered to typical consumers for similar service under closely comparable circumstances constitute the best basis for effecting comparisons. In researches respecting rates to consumers therefore the actual *rate schedules* of Statement "E" should be employed, and not statistics of average revenues per kilowatt-hour, as these are valueless for rate comparisons—and particularly so when all classifications of service are combined.

In any consideration of the relative economies of electrical service in the various municipalities—whether based on the actual rates for service as set forth in Statement "E," or on the derived statistics resulting from the rates and other factors as presented in Statement "D"—full account should be taken respectively, of the influence upon costs of such factors as the size of the municipality, the distance from the source of power, the features of the power developments from which service is received, the sizes and concentrations of adjacent markets for electricity, and the sizes and characters of the loads supplied under the various classifications by the local electrical utility to the ultimate consumers.

In Statement "D" account has been taken of the sizes of municipalities by grouping them according to whether they are (i) cities—over 10,000 population; (ii) towns of 2,000 to 10,000 population; or (iii) small towns (under 2,000 population), villages, and suburban areas in townships (which are comparable in respect of conditions of supply to the smaller towns and villages). The populations and the approximate transmission distances are also given.

A feature of the electrical service in Ontario municipalities is the strikingly large average annual consumption per domestic consumer. There are in all about 182 Ontario municipalities where the average annual consumption per domestic consumer is in excess of 600 kilowatt-hours. Of the 76 cities and towns with populations of 2,000 or more—in which over 85 per cent of the domestic consumers of the undertaking are served—no less than 49 have an average annual consumption per domestic consumer in excess of 1,000 kilowatt-hours; of these, 27 have an average annual consumption per domestic consumer in excess of 1,500 kilowatt-hours, and 11 have an average annual consumption per domestic consumer in excess of 2,000 kilowatt-hours.

The high average consumption for domestic service results essentially from the policy of the undertaking in providing electrical service "at cost"; the rate schedules scientifically designed according to this principle automatically encourage liberal use of the service. Under the standard rate schedules employed by Ontario municipalities, follow-up rates of 1 cent and 1.25 cents (less 10 per cent) are in common use, and as a rule even where the higher initial rates per kilowatt-hour obtain, it is only necessary for the domestic consumer to reach a monthly charge of from $2.00 to $3.00 when he obtains the benefit of a follow-up rate of 1.8 cents net. The cost of electric cooking is thus within reach of most of the domestic consumers in Ontario.

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers For Domestic Service, for Commercial Light Service

Group I—CITIES

Municipality	System	Population	Distance from generating station	Domestic service					
				Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			miles	$ c.	kw-hr.		kw-hr	$ c.	cts.
Belleville	E.O.	13,267	13	81,548.07	4,694,881	3,028	131	2.25	1.7
Brantford	Nia.	29,287	79	160,236.81	10,379,439	6,426	138	2.14	1.5
Chatham	Nia.	16,104	193	77,814.48	4,540,139	3,815	100	1.71	1.7
East Windsor	Nia.	15,105	239	83,936.97	4,819,468	2,817	142	2.46	1.7
Fort William	T.B.	24,786	87	200,989.21	26,161,720	5,628	391	3.01	0.8
Galt	Nia.	13,236	92	105,465.02	5,610,001	3,450	136	2.57	1.9
Guelph	Nia.	19,857	75	100,184.50	5,689,423	5,000	96	1.69	1.8
Hamilton	Nia.	134,566	53	798,848.99	53,912,988	32,309	142	2.10	1.5
Kingston	E.O.	21,616	50	98,839.73	4,342,083	5,374	68	1.55	2.3
Kitchener	Nia.	28,282	95	181,079.68	10,967,667	6,751	139	2.30	1.7
London	Nia.	68,404	123	445,925.63	32,015,040	16,690	160	2.24	1.4
Niagara Falls	Nia.	18,403	1	150,408.18	13,315,248	4,532	249	2.81	1.1
Oshawa	E.O.	24,194	75	187,012.54	7,098,241	6,339	93	2.45	2.6
Ottawa	E.O.	122,731	1	325,443.96	40,207,559	11,889	284	2.30	0.8
Owen Sound	G.B.	12,304	32	54,009.53	3,068,378	3,014	86	1.51	1.8
Peterborough	E.O.	22,012	2	108,772.60	5,935,441	5,160	96	1.76	1.8
Port Arthur	T.B.	19,362	73	111,393.27	8,411,904	4,128	172	2.28	1.3
St. Catharines	Nia.	24,094	18	140,271.42	11,134 477	5,979	158	2.19	1.3
St. Thomas	Nia.	16,567	134	101,984.90	6,548,740	4,126	133	2.07	1.6
Sarnia	Nia.	16,763	205	100,945.88	5,198,433	4,476	97	1.89	1.9
Stratford	Nia.	18,671	119	141,864.86	8,966,540	4,296	175	2.77	1.6
Toronto	Nia.	585,628	78	3,346,607.91	222,028,372	146,603	128	1.92	1.5
Toronto D.C. and 60 cycle*	......	....	....	61,971.07	1,985,588	1,103	127	3.96	3.1
Welland	Nia.	10,054	14	52,347.87	2,965,423	2,212	112	1.97	1.8
Windsor	Nia.	68,569	238	531,544.87	33,924,110	14,787	188	2.96	1.6
Woodstock	Nia.	10,687	94	78,764.88	4,802,402	2,787	145	2.37	1.6

*This,—with the exception of a relatively small D.C. power load,—is a special service not created by the Hydro-Electric Power Commission but acquired through the purchase of a privately owned company. The service has been continued at the request of the customers who preferred to retain the electrical apparatus installed for this special service, and has been continued at the rates prevailing before the service was acquired by the Commission.

Group II—TOWNS

			miles	$ c.	kw-hr.		kw-hr	$ c.	cts.
Alexandria	E.O.	2,300	30	7,521.20	136,252	310	37	2.06	5.5
Amherstburg	Nia.	2,987	257	19,760.34	861,005	640	113	2.60	2.3
Aylmer	Nia.	1,992	145	10,059.72	460,320	609	64	1.40	2.2
Barrie	G.B.	7,311	48	41,410.23	2,606,570	1,824	121	1.93	1.6
Brampton	Nia.	4,993	78	34,345.65	2,174,258	1,324	138	2.17	1.6
Brockville	E.O.	9,191	62	36,776.61	17,974.26	2,406	62	1.27	2.0
Carleton Place	E.O.	4,293	47	18,611.03	494,960	908	46	1.71	3.8
Collingwood	G.B.	6,126	24	25,300.98	1,274,414	1,384	77	1.53	2.0
Dundas	Nia.	5,052	52	21,023.03	1,138,494	1,166	83	1.52	1.8
Dunnville	Nia.	3,450	37	11,151.21	401,866	604	57	1.59	2.8

NOTE: Systems:—Niagara = Nia.; Georgian Bay = G.B.; Eastern Ontario=E.O.; Thunder Bay = T.B.

"D"

in Ontario Municipalities Served by the Commission and for Power Service during the Year 1930

Population, 10,000 or more

Commercial light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horsepower	
$ c.	kw-hr.		kw-hr	$ c.	cents	$ c.			
57,241.65	2,032,510	507	336	9.41	2.8	50,270.39	93	2,269	3,628
44,198.28	4,230,728	736	494	5.17	1.0	133,935.35	111	7,448	7,273
69,173.38	4,271,101	701	508	8.23	1.6	70,820.96	110	3,453	4,626
25,818.99	1,195,839	304	322	6.95	2.2	68,914.40	43	2,819	3,164
67,540.06	4,063,690	883	377	6.27	1.7	63,108.57	100	3,216	6,611
43,460.78	2,179,259	498	351	7.17	2.0	83,360.95	116	4,579	4,064
47,272.62	2,828,261	715	332	5.56	1.7	119,140.06	136	6,974	5,851
190,689.83	16,355,876	3,564	397	4.63	1.2	946,575.89	855	41,857	36,728
71,238.20	3,582,800	863	355	7.08	2.0	76,807.24	140	4,009	6,377
103,749.02	6,612,761	938	602	9.44	1.6	251,998.04	243	13,023	7,932
190,442.03	12,977,820	2,634	420	6.17	1.5	410,127.75	508	20,654	19,832
65,260 95	5,701,453	720	656	7.51	1.1	77,932.34	95	4,446	5,347
64,912.07	2,423,786	513	394	10.54	2.7	207,319.80	102	8,025	6,954
157,929.08	9,820,722	1,442	564	9.07	1.6	98,389.42	213	6,473	13,544
33,237.98	1,956,985	567	299	5.08	1.7	37,354.27	122	2,361	3,703
63,240.39	3,332,823	747	372	7.06	1.9	107,257.78	157	5,876	6,064
61,070.20	3,584,302	749	400	6.82	1.7	912,996.82	99	46,161	4,976
43,424.93	2,899,226	644	394	5.90	1.5	90,566.30	144	6,140	6,767
44,999.76	2,843,000	642	371	5.85	1.6	57,459.18	106	3,244	4,874
47,278.37	2,495,290	609	343	6.50	1.9	163,372.87	85	5,536	5,170
48,151.46	2,399,800	627	327	6.57	2.0	62,907.40	141	2,769	5,064
2,699,802.99	118,735,075	24,964	404	9.19	2.3	3,213,552.67	4,127	126,223	175,694
268,503.67	6,822,614	1,582	331	13.01	3.9	574,657.50	1,124	19,912	3,809
31,576.59	1,894,871	427	374	6.24	1.7	63,698.95	81	3,300	2,720
274,997.73	16,302,125	2,398	564	9.52	1.7	239,963.66	363	10,236	17,548
39,725.09	2,411,639	454	456	7.51	1.6	55,035.88	91	3,364	3,332

NOTE—The figures for power service for Toronto do not include street railway power, or exhibition power.

NOTE—The above group of 25 cities utilizes about 80 per cent. of the power distributed by the Commission to Ontario municipalities.

of Population, 2,000 or more

$ c.	kw-hr.		kw-hr	$ c.	cents	$ c.			
4,350.80	91,835	98	75	3.57	4.7	6,342.60	13	170	421
7,543.41	332,866	136	197	4.46	2.3	7,407.38	17	254	793
7,563.07	358,997	129	234	4.92	2.1	5,788.77	13	298	751
23,358.23	1,292,404	336	323	5.85	1.8	12,914.42	35	727	2,195
15,398.20	872,250	227	321	5.65	1.8	16,393.18	54	1,055	1,605
23,669.57	1,389,356	425	274	4.66	1.7	43,284.47	71	2,003	2,902
9,247.04	261,986	182	117	4.14	3.5	21,880.43	20	804	1,110
10,857.35	477,240	260	153	3.48	2.3	28,009.72	56	1,440	1,700
11,812.17	639,406	177	302	5.58	1.8	23,044.44	42	1,434	1,385
11,238.83	477,477	188	214	5.04	2.4	14,507.24	29	631	821

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers For Domestic Service, for Commercial Light Service

Group II—TOWNS

Municipality	System	Population	Distance from generating station	Domestic service Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			miles	$ c.	kw-hr.		kw-hr	$ c.	cts.
Elmira	Nia.	2,795	107	15,917.45	946,770	538	150	2.52	1.7
Goderich	Nia.	4,221	167	25,187.65	1,088,809	1,184	79	1.82	2.3
Hanover	G.B.	2,626	35	18,205.31	734,638	690	90	2.23	2.5
Hespeler	Nia.	2,719	90	17,836.46	868,370	688	106	2.18	2.1
Huntsville	G.B.	2,608	26	10,269.10	389,920	569	60	1.57	2.6
Ingersoll	Nia.	5,050	104	32,567.41	1,815,300	1,321	115	2.06	1.8
Kincardine	G.B.	2,352	69	14,053.52	3,933,56	542	61	2.17	3.6
Kingsville	Nia.	2,223	255	13,405 06	348,645	702	42	1.60	3.8
Leamington	Nia.	5,269	263	24,072.55	890,751	1,256	60	1.62	2.7
Lindsay	E.O.	7,056	19	40,094.36	1,172,626	1,825	54	1.84	3.4
Listowel	Nia.	2,545	154	17,321.31	844,844	695	102	2.09	2.1
Meaford	G.B.	2,729	23	11,304.03	374,095	628	50	1.52	3.0
Merritton	Nia.	2,575	16	12,065.94	654,096	620	89	1.64	1.8
Midland	G.B.	7,826	25	34,006.94	2,075,803	1,550	111	1.82	1.6
Mimico	Nia.	5,762	75	52,674.50	3,222,272	1,628	168	2.75	1.6
Napanee*	E.O.	2,990	19	32,531 36	....	749	......	......	....
New Toronto	Nia.	5,622	76	30,942.44	1,825,237	1,275	119	2.02	1.7
Orangeville	G.B.	2,721	47	12,265.53	455,273	631	61	1.64	2.7
Paris	Nia.	4,156	76	24,481.40	1,396,342	1,053	97	1.69	1.6
Penetang	G.B.	3,615	29	9,038.18	484,334	545	83	1.55	1.9
Perth	E.O.	3,698	21	21,286.05	778,045	854	78	2.12	2.7
Petrolia	Nia.	2,671	231	11,059.06	450,820	633	58	1.41	2.5
Picton	E.O.	3,315	33	19,842.24	994,440	964	88	1.75	2.0
Port Colborne	Nia.	5,461	21	29,972.85	1,488,390	1,295	100	2.01	2.0
Port Hope*	E.O.	4,600	43	36,132.37	....	1,191	......	......	....
Prescott	E.O.	2,757	48	15,035.58	960,718	649	127	1.99	1.6
Preston	Nia.	5,884	86	47,275.32	2,595,810	1,538	142	2.59	1.8
Riverside	Nia.	4,603	243	44,159.30	2,125,569	1,127	158	3.29	2.1
St. Marys	Nia.	4,072	133	26,279.64	1,347,111	1,008	113	2.20	2.0
Sandwich	Nia.	10,655	245	96,806.75	6,279,489	2,802	187	2.89	1.5
Simcoe	Nia.	4,675	103	15,546.85	820,784	903	78	1.48	1.9
Smiths Falls	E.O.	7,178	38	40,494.86	1,458,421	1,666	74	2.07	2.8
Strathroy	Nia.	2,737	150	18,735.50	928,064	786	99	1.99	2.0
Thorold	Nia.	5,037	9	20,101.17	1,073,619	1,166	76	1.41	1.9
Tillsonburg	Nia.	3,166	116	13,795.78	661,010	832	66	1.39	2.1
Walkerville	Nia.	10,671	239	107,115.09	7,340,621	2,581	234	3.41	1.5
Wallaceburg	Nia.	4,360	211	17,359.71	767,216	989	65	1.47	2.6
Waterloo	Nia.	7,782	96	54,979.67	3,498,556	1,792	167	2.63	1.6
Weston	Nia.	4,425	80	35,306.90	2,667,955	1,149	196	2.59	1.3
Whitby	E.O.	5,307	80	19,038.11	915,144	787	97	2.02	2.1
Wingham	G.B.	2,362	70	13,012.04	361,142	553	55	2.09	3.6

*15 months' operation.

NOTE—The above group of 51 towns utilizes about 12 per cent of the power distributed by the Commission to Ontario municipalities.

"D"—Continued

in Ontario Municipalities Served by the Commission and for Power Service during the Year 1930

of Population, 2,000 or more

Commercial light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horsepower	
$ c.	kw-hr.		kw-hr	$ c.	cents	$ c.			
6,918.35	286,480	126	190	4.59	2.4	14,026.76	21	680	685
12,508.69	443,245	216	174	4.91	2.8	17,450.91	21	725	1,421
6,235.60	258,929	111	190	4.58	2.4	19,703.91	19	717	820
5,550.67	275,796	109	215	4.32	2.0	17,838.62	24	962	821
6,777.95	289,221	95	251	5.88	2.3	15,195.68	10	879	674
16,093.05	903,120	235	310	5.39	1.8	26,417.85	43	1,377	1,599
6,927.47	167,909	117	117	4.85	4.1	9,331.04	19	366	678
6,208.22	180,920	165	94	3.22	3.4	3,298.66	15	142	882
15,241.16	495,565	244	177	5.45	3.1	19,724.16	29	551	1,529
23,776.28	729,066	330	182	5.95	3.3	30,204.16	71	1,439	2,226
7,924.86	321,234	157	172	4.23	2.5	11,895.68	24	535	876
6,041.26	199,568	131	125	3.79	3.0	5,200.04	16	247	775
2,287.24	118,604	55	180	3.47	1.9	53,575.16	8	2,569	683
13,606.04	708,086	249	243	4.66	1.9	75,380.20	62	5,070	1,861
8,522.67	392,389	130	250	5.42	2.2	7,318.04	14	415	1,772
19,420.55	....	192	......	.....	....	21,011.73	32	....	973
10,151.94	617,676	138	376	6.18	1.6	118,082.18	26	5,047	1,439
9,307.20	320,104	157	170	4.97	2.9	8,672.25	27	385	815
7,995.27	406,391	176	192	3.79	2.0	12,859.50	25	702	1,254
3,826.82	199,445	100	169	3.22	1.9	11,861.86	26	521	671
13,803.67	404,370	187	184	6.29	3.4	15,467.86	27	613	1,068
6,576.83	247,985	182	112	2.97	2.7	23,952.88	57	785	872
10,821.77	435,367	191	194	4.82	2.5	11,266.30	55	465	1,210
13,041.07	591,813	201	250	5.52	2.2	15,775.27	20	543	1,516
20,909.91	....	188	......	.....	....	33,835.46	56	....	1,435
10,029.98	537,396	170	267	4.98	1.8	5,466.69	21	340	840
19,921.17	904,738	225	330	7.25	2.2	43,097.98	51	2,358	1,814
5,074.70	202,874	56	305	7.62	2.5	10,317.61	8	253	1,191
8,558.17	299,538	187	131	3.73	2.9	17,730.45	37	728	1,232
20,331.08	1,076,051	236	404	7.63	1.9	19,954.62	37	925	3,075
20,486.28	1,039,607	280	317	6.24	2.0	20,392.78	38	834	1,221
15,433.50	594,293	272	187	4.85	2.6	29,134.39	45	1,002	1,983
10,054.50	461,702	179	215	4.68	2.2	9,984.28	26	424	991
6,368.17	453,035	180	196	2.75	1.4	31,331.61	14	1,620	1,360
11,772.71	585,920	206	238	4.75	2.0	11,131.65	30	653	1,068
34,795.69	1,665,631	354	396	8.27	2.1	177,559.60	102	7,945	3,037
9,663.97	384,965	204	149	3.73	2.5	49,375 13	24	1,981	1,217
21,987.94	1,097,374	233	399	8.00	2.0	31,445.27	73	1,780	2,098
8,966.48	494,702	180	233	4.22	1.8	50,587.63	27	2,325	1,356
10,117.17	357,759	146	204	5.77	2.8	16,855.59	15	663	948
7,839.83	194,175	161	101	4.06	4.0	11,846.91	25	410	739

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population),

NOTE—The power used in the smaller places and rural districts is, and possibly must always be, a relatively small proportion of the power distributed by the Commission. Thus, the power used by the small municipalities in the following group, which includes small towns, villages and certain suburban areas in townships, is less than 10 per cent. of the power distributed by the Commission to Ontario municipalities. This relatively small proportion of the total power,

Municipality	System	Population	Distance from generating station	Domestic service					
				Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			miles	$ c.	kw-hr.		kw-hr	$ c.	cts.
Acton	Nia.	1,903	91	10,092.08	519,385	490	90	1.74	1.9
Agincourt	Nia.	P.V.	93	4,277.53	140,590	136	86	3.56	3.0
Ailsa Craig	Nia.	500	148	2,890.81	91,291	134	57	1.81	3.2
Alliston	G.B.	1,342	74	8,934.35	200,218	344	50	2.22	4.4
Alvinston	Nia.	612	267	4,487.57	66,143	158	35	2.38	6.8
Ancaster Twp.	Nia.	4,124	59	7,851.58	395,384	252	131	2.60	2.0
Apple Hill	E.O.	P.V.	19	983.37	15,742	38	35	2.16	6.2
Arkona	Nia.	371	250	2,356.15	47,016	114	38	1.93	5.0
Arthur	G.B.	952	63	4,109.62	68,955	170	35	2.10	6.0
Athens	E.O.	602	75	4,359.11	72,487	125	49	2.95	6.0
Ayr	Nia.	781	84	4,290.39	219,045	189	97	1.90	2.0
Baden	Nia.	P.V.	103	3,389.53	174,324	125	118	2.30	1.9
Barton Twp.	Nia.	1,597	46	1,943.39	79,951	70	93	2.25	2.4
Beachville	Nia.	P.V.	101	2,914.18	116,378	125	79	1.97	2.5
Beaverton‡	G.B.	970	28	7,534.99	252,870	380	56	1.65	3.0
Beeton	G.B.	560	80	3,601.08	67,718	121	48	2.56	5.3
Belle River	Nia.	768	250	4,164.62	150,335	181	70	1.95	2.8
Blenheim	Nia.	1,631	202	8,021.89	318,566	484	55	1.37	2.5
Bloomfield	E.O.	540	29	2,970 96	87,979	149	50	1.68	3.4
Blyth	Nia.	618	161	3,395.84	80,475	153	46	1.93	4.2
Bolton	Nia.	600	98	3,023.46	88,350	144	51	1.74	3.4
Bothwell	Nia.	603	217	2,791.61	83,102	163	44	1.46	3.4
Bradford	G.B.	884	74	4,943.67	109,342	195	47	2.13	4.5
Brantford Twp.	Nia.	7,053	79	19,839.70	921,718	750	103	2.22	2.2
Brechin	G.B.	P.V.	18	963.33	19,896	39	41	2.01	4.8
Bridgeport	Nia.	P.V.	98	3,483.86	160,516	101	134	2.90	2.2
Brigden	Nia.	P.V.	233	2,259.14	46,145	107	36	1.78	4.9
Brighton*	E.O.	1,311	12	12,179.25	....	406	......	......	....
Brussels	Nia.	706	159	4,895.77	137,145	195	61	2.17	3.6
Burford	Nia.	P.V.	83	4,305.72	190,552	184	88	1.98	2.3
Burgessville	Nia.	P.V.	116	1,221.09	35,212	.55	55	1.92	3.5
Caledonia	Nia.	1,475	65	4,441.06	136,350	275	44	1.43	3.3
Campbellville	Nia.	P.V.	96	1,244.91	25,974	40	56	2.66	4.8
Cannington	G.B.	878	36	4,684.07	166,989	234	60	1.70	2.8
Cardinal†	E.O.	1,284	38	1,762.98	....	245	......	......	....

*15 months' operation. †5 months' operation. ‡Includes certain rural consumers.

"D"—Continued

in Ontario Municipalities Served by the Commission and for Power Service during the Year 1930

VILLAGES AND SUBURBAN AREAS

however, exerts upon the economic life of the Province a most beneficial influence. It should further be appreciated that about 35 per cent. of these municipalities obtain their power, not from Niagara, but from relatively small and isolated water-power developments throughout the Province. The net cost per kilowatt-hour given in the table is the cost inclusive of all charges. Consult also introduction to Statement "D," page 366.

Commercial light service						Power service			
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horse-power	Total number of consumers
$ c.	kw-hr.		kw-hr	$ c.	cents	$ c.			
3,309.90	161,627	81	166	3.41	2.1	16,378.01	20	650	591
992.41	23,128	20	101	4.35	4.3	1,410.88	2	62	158
1,446.97	46,274	38	94	2.94	3.1	1,441.67	2	60	174
4,830.33	102,954	108	81	3.80	4.7	3,096.71	14	137	466
2,658.11	46,257	59	65	3.75	5.7	1,083.91	3	28	220
1,528.44	82,956	37	187	3.44	1.8	446.29	5	38	294
723.72	13,877	17	68	3.55	5.2	318.62	1	10	56
1,345.52	34,167	36	75	2.95	3.9	987.70	4	26	154
3,610.75	54,930	86	54	3.58	6.6	1,550.34	4	51	260
2,334.98	32,326	42	67	4.86	7.2	** 122.26	1	....	168
1,623.11	61,191	47	106	2.82	2.7	1,042.10	5	39	241
1,250.29	51,956	30	144	3.47	2.4	5,614.67	3	207	158
108.22	4,124	5	69	1.81	2.6	800.29	2	57	77
889.85	28,797	27	83	2.56	3.2	8,714.65	4	376	156
2,453.43	102,580	58	149	3.56	2.4	2,415.27	10	108	448
2,530.27	46,468	35	111	6.02	5.4	3,599.98	6	105	162
1,611.39	44,327	36	106	3.84	3.6	1,170.99	4	52	221
5,929.97	290,811	118	209	4.26	2.0	4,764.14	14	202	616
988.56	23,758	24	79	3.30	4.2	2,470.44	10	84	183
1,577.54	34,896	46	58	2.63	4.5	814.42	4	43	203
820.47	22,793	40	47	1.71	3.6	2,372.35	9	92	193
1,382.60	52,169	46	91	2.40	2.7	977.98	5	76	214
3,274.98	78,815	62	109	4.55	4.2	4,220.55	8	149	265
4,059.12	195,005	42	369	7.69	2.1	2,667.19	6	119	798
994.69	24,610	26	76	3.07	4.0	907.72	4	38	69
983.98	36,596	16	191	5.13	2.7	184.65	3	13	120
1,683.04	49,061	38	102	3.51	3.4	1,742.06	6	69	151
6,638.60	....	104	......	.....	.....	4,587.42	10	....	520
2,289.87	59,630	60	84	3.23	3.8	512.37	2	17	257
972.40	42,992	35	102	2.32	2.3	1,855.05	4	69	223
650.21	16,873	23	61	2.36	3.9	1,060.27	2	43	80
4,601.58	173,720	87	168	4.46	2.6	2,587.11	8	92	370
443.05	14,811	8	154	4.62	3.0	....	......	....	48
2,183.76	69,410	66	88	2.76	3.1	770.52	11	54	311
694.16	....	35	......	.....	.....	239.77	2	....	282

**One month only.

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population),

Municipality	System	Population	Distance from generating station	Domestic service					
				Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			miles	$ c.	kw-hr.		kw-hr	$ c.	cts.
Cayuga	Nia.	671	82	2,437.21	63,240	94	61	2.33	3.8
Chatsworth	G.B.	257	23	1,230.50	18,810	58	27	1.77	6.5
Chesley	G.B.	1,772	46	7,895.91	271,151	413	55	1.61	2.9
Chesterville	E.O.	968	44	4,805.86	196,383	212	77	1.89	2.5
Chippawa	Nia.	1,171	4	6,664.61	315,570	280	99	2.10	2.1
Clifford	Nia.	461	173	1,998.00	43,251	95	39	1.80	4.6
Clinton	Nia.	1,937	155	11,404.08	478,237	514	78	1.87	2.4
Coldwater	G.B.	615	17	2,562 80	109,580	129	71	1.67	2.3
Comber	Nia.	P.V.	216	2,592.84	73,742	100	62	2.18	3.5
Cookstown	G.B.	P.V.	65	2,107.44	27,794	96	25	1.87	7.6
Cottam	Nia.	P.V.	257	2,585.18	58,808	105	48	2.09	4.4
Courtright	Nia.	394	215	1,943.52	30,598	71	36	2.28	6.4
Creemore	G.B.	610	60	2,293.11	55,752	152	31	1.28	4.1
Dashwood	Nia.	P.V.	163	1,673.53	39,913	67	52	2.58	4.2
Delaware	Nia.	P.V.	137	1,275.24	23,269	48	40	2.21	5.5
Dorchester	Nia.	P.V.	129	2,524.25	87,116	130	56	1.62	2.9
Drayton	Nia.	508	169	2,881.87	89,804	154	49	1.58	3.2
Dresden	Nia.	1,465	210	5,515.99	171,799	349	41	1.32	3.2
Drumbo	Nia.	P.V.	90	2,057.72	62,264	83	65	2.14	3.3
Dublin	Nia.	P.V.	140	1,261.72	29,629	38	59	2.50	4.3
Dundalk	G.B.	594	18	2,510.21	67,258	160	36	1.34	3.7
Durham	G.B.	1,722	23	5,415.39	177,510	387	39	1.19	3.0
Dutton	Nia.	805	152	3,408.09	127,679	204	52	1.40	2.7
Elmvale	G.B.	P.V.	32	2,446.83	84,230	134	50	1.44	2.9
Elmwood	G.B.	P.V.	40	1,002.07	13,005	55	21	1.59	7.7
Elora	Nia.	1,244	94	6,667.85	286,134	305	80	1.86	2.3
Embro	Nia.	424	107	2,599.74	66,379	95	58	2.28	3.9
Erieau	Nia.	210	210	3,176.24	66,138	116	46	2.23	4.8
Erie Beach*	Nia.	21	209	1,229.61	20,817	61	30	1.77	5.9
Essex	Nia.	1,732	254	8,641.52	307,190	447	61	1.68	2.8
Etobicoke Twp.	Nia.	14,212	73	95,905.81	4,245,597	3,653	98	2.21	2.3
Exeter	Nia.	1,615	155	10,769.94	441,447	441	84	2.08	2.4
Fergus	Nia.	2,286	94	14,022.53	658,885	599	94	2.00	2.2
Finch	E.O.	377	53	2,111.18	25,486	70	31	2.54	8.3
Flesherton	G.B.	454	7	2,458.16	61,530	126	41	1.65	4.0
Fonthill	Nia.	763	25	4,784.55	178,087	209	72	1.93	2.7
Forest	Nia.	1,415	256	10,184.51	326,840	450	61	1.91	3.1
Georgetown	Nia.	1,992	100	12,790.62	640,362	637	86	1.71	2.0
Glencoe	Nia.	759	229	5,420.70	134,194	219	52	2.08	4.0
Grand Valley	G.B.	583	51	2,842.89	55,134	135	34	1.77	5.2

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*Unusual conditions—summer resort.

"D"—Continued

in Ontario Municipalities Served by the Commission and for Power Service during the Year 1930

VILLAGES AND SUBURBAN AREAS

Commercial light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horse-power	
$ c.	kw-hr.		kw-hr	$ c.	cents	$ c.			
2,162.13	51,686	48	92	3.83	4.2	1,381.13	3	31	145
1,428.43	27,040	32	68	3.61	5.3	420.48	1	20	91
3,936.88	157,270	102	128	3.22	2.5	10,035.47	20	347	535
2,239.60	69,038	57	103	3.16	3.2	3,200.30	3	110	272
1,504.38	92,737	43	180	2.92	1.6	1,950.20	7	57	330
1,378.42	36,663	38	83	3.10	3.8	105.25	1	5	134
5,603.11	190,076	120	134	3.96	2.9	5,455.00	15	210	649
1,528.98	62,115	57	89	2.20	2.5	5,258.57	4	182	190
2,266.22	59,035	46	108	4.15	3.8	3,221.99	2	75	148
1,452.24	20,736	36	48	3.36	7.0	330.44	3	16	135
1,339.16	44,294	26	137	4.13	3.0	360.00	1	15	132
1,023.31	21,543	23	78	3.71	4.8	389.88	1	8	95
1,753.75	50,015	55	76	2.66	3.5	1,338.05	5	59	212
988.10	18,245	25	61	3.29	5.4	1,265.06	1	42	93
686.33	15,608	19	68	3.01	4.4	....	......	....	67
888.77	26,521	31	71	2.39	3.4	552.98	2	35	163
1,915.97	47,748	61	71	2.85	4.0	1,285.03	5	60	220
4,819.53	174,861	117	127	3.49	2.8	5,813.64	14	213	480
768.16	24,063	24	84	2.67	3.2	841.23	2	28	109
926.70	19,874	27	72	3.36	4.7	516.59	3	21	68
2,208.63	66,684	72	75	2.49	3.3	2,148.21	3	111	235
4,033.69	133,555	99	111	3.34	3.0	11,075.48	10	428	496
2,774.14	106,881	70	126	3.28	2.6	3,148.57	7	139	281
1,654.62	50,595	55	77	2.51	3.3	3,738.89	10	221	199
514.80	7,777	20	33	2.20	6.6	1,302.12	1	31	76
3,648.42	115,071	77	125	3.95	3.2	8,391.00	3	336	385
1,720.28	32,600	47	62	3.30	5.3	1,460.86	3	46	145
866.44	14,153	11	107	6.56	6.1	550.42	2	26	129
210.56	2,880	2	120	8.78	7.3	....	......	....	63
6,049.65	222,586	118	159	4.31	2.7	7,963.95	20	318	585
22,906.22	1,241,400	329	315	5.82	1.8	16,544.62	23	767	4,005
5,132.00	153,764	118	108	3.59	3.3	6,060.77	10	267	569
6,214.30	213,435	119	153	4.45	2.9	11,069.44	18	400	736
1,729.66	22,988	34	56	4.24	7.5	912.48	1	25	105
1,739.56	43,887	45	85	3.37	3.9	366.39	2	17	173
832.97	27,786	26	89	2.67	3.0	587.86	4	24	239
4,621.17	151.625	125	99	3.01	3.0	5,057.25	23	192	598
5,556.57	261,082	130	170	3.62	2.1	21,158.81	24	930	791
3,407.26	99,033	79	107	3.69	3.4	3,140.85	6	107	304
2,120.89	32,403	50	52	3.43	6.5	1,707.70	2	59	187

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population)

Municipality	System	Population	Distance from generating station	Domestic service					
				Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			miles	$ c.	kw-hr.		kw-hr	$ c.	cts.
Granton........	Nia.	P.V.	147	1,656.60	62,997	79	66	1.75	2.6
Gravenhurst.....	G.B.	1,776	7	7,952.73	436,242	408	89	1.62	1.8
Hagersville......	Nia.	1,246	75	4,597.80	216,781	300	61	1.30	2.1
Harriston.......	Nia.	1,274	167	6,175.18	217,976	311	59	1.67	2.8
Harrow.........	Nia.	P.V.	267	7,619.44	508,621	231	192	2.87	1.5
Havelock........	E.O.	1,421	25	6,631.08	142,406	279	42	1.95	4.7
Hensall.........	Nia.	753	161	3,507.49	144,252	173	70	1.71	2.4
Highgate........	Nia.	350	217	1,672.05	39,435	95	35	1.51	4.2
Holstein.........	G.B.	P.V.	34	1,148.10	10,485	50	18	1.95	10.9
Humberstone....	Nia.	1,597	22	9,290.28	347,019	480	62	1.66	2.7
Jarvis...........	Nia.	471	81	1,648.37	38,745	93	37	1.58	4.3
Kemptville......	E.O.	1,298	62	6,382.04	173,756	297	51	1.89	3.7
Kirkfield........	G.B.	P.V.	35	803.38	16,374	26	52	2.57	4.9
Lakefield........	E.O.	1,423	8	6,387.28	198,458	305	56	1.81	3.2
Lambeth........	Nia.	P.V.	130	3,493.88	95,744	107	77	2.79	3.6
Lanark.........	E.O.	581	21	2,427.34	42,419	124	30	1.69	5.7
Lancaster.......	E.O.	560	25	2,017.16	25,971	73	30	2.33	7.7
La Salle........	Nia.	628	248	9,300.58	343,578	198	145	3.93	2.7
London Twp.....	Nia.	7,821	128	8,948.59	321,469	293	93	2.58	2.8
Lucan..........	Nia.	573	141	4,715.32	181,336	167	90	2.34	2.6
Lucknow........	G.B.	1,147	68	6,507.52	141,468	256	46	2.10	4.6
Lynden.........	Nia.	P.V.	62	1,765.42	72,773	77	80	1.94	2.4
Madoc*.........	E.O.	1,067	25	....	....	267	......	.....	....
Markdale.......	G.B.	798	7	3,164.88	102,253	187	46	1.43	3.0
Markham.......	Nia.	969	114	5,617.46	153,382	252	52	1.89	3.7
Marmora........	E.O.	1,023	20	3,458 11	64,240	188	29	1.55	5.4
Martintown.....	E.O.	P.V.	14	858.60	11,570	33	29	2.17	7.4
Maxville........	E.O.	746	26	3,217.89	41,961	141	26	1.99	7.7
Merlin..........	Nia.	P.V.	219	2,032.80	42,955	102	35	1.68	4.7
Milton..........	Nia.	1,775	88	10,899.18	448,772	456	82	2.00	2.4
Milverton.......	Nia.	1,122	139	5,056.10	230,742	211	89	1.95	2.2
Mitchell........	Nia.	1,645	135	9,755.00	450,361	445	85	1.84	2.2
Moorefield......	Nia.	P.V.	168	690.99	13,921	44	25	1.23	5.0
Mt. Brydges....	Nia.	P.V.	141	2,463.41	87,220	135	55	1.56	2.8
Mt. Forest......	G.B.	1,823	38	6,918.18	292,810	422	60	1.41	2.4
Neustadt........	G.B.	431	40	2,198.11	23,826	94	22	1.99	9.2
Newbury........	Nia.	298	223	1,093.34	20,003	60	28	1.52	5.5
New Hamburg...	Nia.	1,454	106	9,964.94	458,078	342	110	2.39	2.2
Niagara-on-the-Lake.........	Nia.	1,547	13	14,024.74	906,511	452	172	2.66	1.5

*6 months only with standard records.

"D"—Continued

in Ontario Municipalities Served by the Commission and for Power Service during the Year 1930

VILLAGES AND SUBURBAN AREAS

Commercial light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horse-power	
$ c.	kw-hr.		kw-hr	$ c.	cents	$ c.			
1,025.42	39,044	31	105	2.76	2.6	987.58	1	38	111
5,432.12	271,645	89	300	6.00	2.0	7,845.45	12	321	509
4,472.92	257,474	106	202	3.52	1.7	27,059.41	15	1,675	421
3,783.85	117,405	97	104	3.34	3.2	6,261.41	12	248	420
4,149.56	140,742	76	161	4.74	2.9	3,675.80	4	175	311
1,888.80	41,176	57	64	2.91	4 6	5,891.94	3	174	339
1,816.45	54,804	54	82	2.70	3.3	2,743.74	13	111	240
812.20	29,043	35	69	1.93	2.8	1,953.46	5	63	135
595.67	5,991	17	29	2.92	9.9	307.72	1	8	68
2,805.14	144,480	73	172	3.34	1.9	6,638.05	7	216	560
1,300.07	49,046	37	112	2.97	2.7	4,113.93	4	149	134
3,921.06	117,785	82	123	4.08	3.3	4,400.85	7	162	386
876.77	20,822	19	96	4.06	4.2	285.48	1	20	46
4,774.91	117,642	80	126	5.10	4.1	2,759.85	7	143	392
1,612.35	58,219	19	255	7.07	2.7	314.65	1	15	127
1,239.79	26,690	36	64	2.99	4.6	120.69	2	5	162
2,284.94	29,978	41	62	4.76	7.6	1,408.74	1	24	115
3,177.73	121,274	30	348	9.91	2.6	2,507.78	3	69	231
1,566.17	53,871	13	345	10.04	2.9	1,505.25	3	49	309
1,757.01	52,409	47	97	3.25	3.4	1,754.78	9	78	223
3,252.83	60,892	84	60	3.23	5.3	4,049.51	5	107	345
736.95	35,519	18	156	3.23	2.1	916.65	1	49	96
....	....	98	......	.....	....	....	6	....	371
2,500.44	79,183	80	86	2.71	3.2	991.58	9	84	276
2,526.44	72,355	62	93	3.24	3.5	4,848.52	10	178	324
1,674.09	37,577	47	65	2.91	4.5	** 117.02	2	....	237
869.79	14,599	23	57	3.45	6.0	....	......	....	56
2,076.38	31,238	48	55	3.68	6.6	308.59	2	6	191
1,268.33	31,841	39	67	2.68	4.0	4,195.80	4	133	145
5,224.28	199,255	98	166	4.35	2.6	29,835.26	20	1,151	574
2,560.57	95,681	73	91	2.42	2.7	4,972.38	8	252	292
4,657.69	208,609	112	154	3.43	2.2	5,408.51	22	281	579
728.14	11,513	32	33	2.09	6.3	1,323.32	2	48	78
984.39	20,566	35	49	2.34	4.8	883.04	3	29	173
5,373.71	07,280	196	104	2.70	2.6	5,612.39	12	157	630
1,321.60	19,637	27	62	4.16	6.7	95.65	2	3	123
865.75	16,439	28	49	2.58	5.3	621.46	2	31	90
4,006.12	152,119	91	142	3.75	2.7	4,567.02	12	225	445
2,980.00	161,995	75	182	3.36	1.8	2,640.59	10	92	537

**Broken period.

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population),

Municipality	System	Population	Distance from generating station	Domestic service Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			miles	$ c.	kw-hr.		kw-hr	$ c.	cts.
Nipigon.........	T.B.	P.V.	14	2,267.95	47,471	109	38	1.80	4.8
Norwich........	Nia.	1,213	110	7,662.74	374,610	348	91	1.86	2.0
Norwood........	E.O.	764	10	4,689.41	109,038	209	44	1.88	4.3
Oil Springs......	Nia.	466	226	1,659.24	46,218	71	55	1.98	3.6
Omemee........	E.O.	481	15	2,486.29	64,372	127	42	1.63	3.9
Otterville........	Nia.	P.V.	115	2,095.67	73,799	108	57	1.62	2.8
Paisley..........	G.B.	700	56	3,603.90	48,515	173	24	1.76	7.4
Palmerston......	Nia.	1,792	161	9,882.62	483,849	399	102	2.09	2.0
Parkhill.........	Nia.	959	157	4,882.37	125,965	224	48	1.85	3.9
Plattsville.......	Nia.	P.V.	96	2,149.30	40,528	85	39	2.08	5.3
Point Edward...	Nia.	1,378	209	5,849.83	206,748	289	59	1.67	2.8
Port Credit.....	Nia.	1,400	69	11,431.33	793,497	399	170	2.44	1.4
Port Dalhousie...	Nia.	1,656	21	12,914.43	789,238	575	115	1.89	1.6
Port Dover......	Nia.	1,628	108	6,546.64	200,931	397	44	1.43	3.3
Port McNicol....	G.B.	831	21	2,848.72	78,967	161	41	1.48	3.6
Port Perry......	G.B.	1,185	58	6,903.89	189,304	276	57	2.10	3.6
Port Rowan.....	Nia.	681	124	2,443.38	47,452	88	49	2.51	5.1
Port Stanley*....	Nia.	583	146	11,067.61	434,567	566	64	1.63	2.5
Priceville........	G.B.	P.V.	12	596.42	5,571	30	17	1.78	10.7
Princeton.......	Nia.	P.V.	96	2,216.22	51,635	80	51	2.17	4.3
Queenston.......	Nia.	P.V.	7	2,720.12	124,022	66	157	3.43	2.2
Richmond.......	E.O.	362	19	1,561.11	27,617	44	58	3.25	5.7
Richmond Hill...	Nia.	1,170	103	6,180.30	253,370	317	65	1.58	2.4
Ridgetown......	Nia.	1,983	211	9,993.51	437,026	540	68	1.55	2.3
Ripley..........	G.B.	423	69	2,771.35	39,293	108	31	2.22	7.1
Rockwood.......	Nia.	P.V.	87	2,831.95	121,251	139	73	1.70	2.3
Rodney.........	Nia.	752	163	3,037.96	97,259	188	43	1.33	3.1
Russell..........	E.O.	P.V.	58	2,533.07	35,769	103	29	2.05	7.1
St. Clair Beach...	Nia.	107	247	2,313.50	99,366	51	176	4.10	2.3
St. George.......	Nia.	P.V.	82	2,652.01	154,441	131	98	1.69	1.7
St. Jacobs.......	Nia.	P.V.	102	3,149.52	172,493	102	141	2.57	1.8
Scarboro Twp....	Nia.	17,105	87	77,958.80	3,574,661	3,904	76	1.65	2.2
Seaforth.........	Nia.	1,702	147	9,569.87	441,983	496	76	1.65	2.2
Shelburne.......	G.B.	1,135	31	5,633.22	186,429	287	53	1.61	3.0
Springfield.......	Nia.	393	151	1,617.62	48,479	92	44	1.48	3.3
Stamford Twp....	Nia.	6,790	2	51,366.64	3,088,190	1,550	170	2.83	1.7
Stayner.........	G.B.	968	53	3,788.69	152,586	221	57	1.42	2.5
Stirling†.........	E.O.	879	19	6,438.57	....	265	......	......	....
Stouffville.......	Nia.	1,053	110	6,075.07	185,315	301	51	1.68	3.3
Sunderland......	G.B.	P.V.	44	1,974.68	34,902	103	29	1.65	5.7

*Summer consumers included. †Flat rate part of year.

"D"—Continued

in Ontario Municipalities Served by the Commission and for Power Service during the Year 1930

VILLAGES AND SUBURBAN AREAS

Commercial light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horse-power	
$ c.	kw-hr.		kw-hr	$ c.	cents	$ c.			
2,036.21	60,059	38	135	4.59	3.7	....	......	....	147
2,697.69	104,568	84	103	2.66	2.6	2,315.38	7	111	439
2,546.90	50,740	65	64	3.22	5.0	2,036.31	4	78	278
983.27	29,101	30	73	2.48	3.4	7,831.10	30	214	131
1,171.33	29,296	41	63	2.50	4.0	294.13	6	19	174
1,564.55	46,794	40	95	3.18	3.3	675.83	3	25	151
2,585.66	59,725	61	91	3.92	4.3	1,269.65	4	39	238
5,586.33	259,600	102	205	4.41	2.2	6,225.14	8	244	509
2,785.94	77,825	74	86	3.10	3.6	1,516.59	5	70	303
953.21	22,359	25	75	3.18	4.3	757.09	1	15	111
1,782.84	57,838	39	118	3.62	3.1	19,891.18	14	810	342
4,824.69	245,923	73	244	4.79	2.0	1,667.87	5	82	477
2,010.72	88,863	50	151	3.42	2.3	4,014.48	8	205	633
4,619.04	142,649	132	89	2.89	3.2	4,695.05	13	193	542
544.20	16,006	22	53	1.81	3.4	71.28	1	2	184
1,699.60	51,936	72	60	1.97	3.3	4,725.28	13	157	361
1,766.00	27,350	33	70	4.53	6.5	102.76	1	3	122
3,240.09	84,040	76	93	3.60	3.9	4,200.56	14	149	656
323.71	3,362	9	31	3.00	9.6	....	......	....	39
609.45	16,492	16	92	3.39	3.7	2,670.87	3	61	99
201.64	4,753	6	66	2.80	4.2	771.57	1	26	73
1,718.90	30,926	23	103	5.73	5.6	....	......	....	67
3,202.72	150,589	64	206	4.38	2.1	2,620.11	12	104	393
4,994.09	217,034	154	127	2.93	2.3	6,450.25	22	348	716
2,194.46	33,274	46	60	3.97	6.6	....	......	....	154
1,107.25	44,816	32	120	2.98	2.5	378.35	1	11	172
2,343.06	78,665	75	90	2.67	3.0	1,592.46	5	89	268
1,465.83	20,481	33	52	3.70	7.2	285.79	1	11	137
1,485.45	44,952	9	468	15.47	3.3	606.62	2	19	62
805.88	34,159	33	89	2.10	2.4	2,188.99	3	84	167
1,163.93	40,668	25	136	3.88	2.9	3,102.75	6	117	133
17,696.22	850,392	323	326	4.71	2.1	23,155.96	33	582	4,260
5,588 05	226,811	120	156	3.85	2.5	4,843.71	12	225	628
3,654.14	115,614	91	104	3.27	3.2	1,601.93	9	96	387
819.46	21,783	34	52	1.95	3.7	3,320.70	4	122	130
7,920.05	460,632	100	366	6.29	1.7	5,878.59	12	222	1,662
2,527.82	92,355	74	104	2.85	2.7	2,741.96	11	151	306
4,567.45	....	90	......	.....	.....	2,447.84	8	....	363
2,725.49	69,272	82	70	2.77	3.9	1,283.84	5	52	388
1,713.52	39,719	39	85	3.66	4.3	93.47	2	6	144

STATEMENT

Statistics Relating to the Supply of Electric Energy to Consumers For Domestic Service, for Commercial Light Service

Group III—SMALL TOWNS (less than 2,000 population),

Municipality	System	Population	Distance from generating station	Domestic service					
				Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.
			miles	$ c.	kw-hr.		kw-hr	$ c.	cts.
Sutton	Nia.	833	114	6,810.04	143,236	363	33	1.59	4.8
Tara	G.B.	441	34	2,955.63	51,444	118	37	2.12	5.7
Tavistock	Nia.	965	129	6,679.85	356,538	252	120	2.24	1.9
Tecumseh	Nia.	2,260	246	15,159.54	589,305	483	101	2.59	2.6
Teeswater	G.B.	817	58	4,637.86	81,366	206	33	1.87	5.7
Thamesford	Nia.	P.V.	136	2,263.52	83,329	117	61	1.65	2.7
Thamesville	Nia.	886	207	4,461.28	183,266	212	73	1.77	2.4
Thedford	Nia.	535	268	2,643.90	48,076	128	31	1.72	5.5
Thorndale	Nia.	P.V.	136	1,370.46	33,769	68	40	1.63	4.1
Thornton	G.B.	P.V.	58	1,246.97	15,982	51	27	2.08	7.8
Tilbury	Nia.	1,886	209	6,313.64	245,187	414	50	1.28	2.6
Toronto Twp.	Nia.	8,047	67	50,586.57	2,940,048	1,667	151	2.58	1.7
Tottenham	G.B.	545	82	2,917.70	37,801	118	26	2.04	7.7
Trafalgar Twp., No. 1	Nia.	3,732	....	13,047.09	511,266	250	177	4.54	2.5
Trafalgar Twp., No. 2*	Nia.	....	....	4,293.08	162,592	106	124	3.28	2.6
Uxbridge	G.B.	1,425	60	7,385.94	222,302	320	59	1.95	3.3
Victoria Harbour	G.B.	1,104	17	2,531.03	77,941	155	43	1.40	3.3
Wardsville	Nia.	214	225	990.23	14,786	51	25	1.65	6.7
Warkworth	E.O.	P.V.	17	2,002.15	35,447	91	33	1.87	5.6
Waterdown	Nia.	874	57	5,229.77	226.114	214	88	2.05	2.3
Waterford	Nia.	1,097	94	7,050.32	426,410	309	114	1.88	1.7
Watford	Nia.	1,045	256	6,116.52	174,900	272	54	1.89	3.5
Waubaushene	G.B.	P.V.	12	1,933.71	67,244	118	49	1.40	2.8
Wellesley	Nia.	P.V.	111	2,668.92	88,463	120	62	1.87	3.0
Wellington	E.O.	912	22	4,313.87	138,509	265	44	1.37	3.1
West Lorne	Nia.	777	159	3,475.85	95,224	191	42	1.52	3.7
Wheatley	Nia.	698	279	4,339.02	114,834	184	53	2.02	3.8
Williamsburg	E.O.	P.V.	28	1,378.31	46,972	55	71	2.09	2.9
Winchester	E.O.	1,004	38	5,670.68	268,554	273	82	1.74	2.1
Windermere†	G.B.	123	22	826.01	....	43	......	......	....
Woodbridge	Nia.	727	85	5,219.93	252,076	232	94	1.95	2.1
Woodville	G.B.	405	40	1,950.65	50,228	100	43	1.68	3.9
Wyoming	Nia.	472	239	2,224.35	38,390	120	26	1.52	5.7
York, East, Twp.	Nia.	27,408	86	146,962.27	6,811,508	8,124	72	1.55	2.2
York, North, Twp	Nia.	10,332	84	74,114.72	2,917,968	2,216	119	3.02	2.5
Zurich	Nia.	P.V.	168	3,015.06	78,452	118	54	2.15	3.8

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*Trafalgar Twp. Zone No. 2 population included in Zone No. 1.

†5 months' only.

"D"—Concluded

in Ontario Municipalities Served by the Commission and for Power Service during the Year 1930

VILLAGES AND SUBURBAN AREAS

Commercial light service						Power service			Total number of consumers
Revenue	Consumption	Number of consumers	Average monthly consumption	Average monthly bill	Net cost per kw-hr.	Revenue	Number of consumers	Average monthly horse-power	
$ c.	kw-hr.		kw-hr	$ c.	cents	$ c.			
2,999.25	61,551	73	71	3.47	4.9	1,472.12	5	39	441
1,777.69	16,076	41	34	3.75	11.1	1,221.47	5	34	164
2,131.78	85,061	73	98	2.45	2.5	8,354.42	5	322	330
3,747.23	119,633	53	192	6.01	3.1	3,574.53	3	98	539
2,632.34	49,750	60	69	3.66	5.3	1,073.57	7	41	273
1,412.84	56,863	36	137	3.41	2.5	3,134.71	8	106	161
3,532.94	136,955	82	143	3.68	2.6	1,862.74	7	95	301
1,463.88	33,728	41	70	3.05	4.3	720.71	2	31	171
1,071.09	24,035	28	69	3.08	4.5	718.06	1	19	97
666.18	11,709	18	54	3.08	5.7	332.56	2	16	71
6,289.01	245,559	134	158	4.05	2.6	11,102.19	16	677	564
14,080.39	607,035	147	344	7.98	2.3	4,847.96	19	247	1,833
2,419.66	29,546	52	46	3.73	8.2	1,314.22	6	39	176
573.25	15,123	2	630	23.89	3.8	1,006.29	11	55	263
454.45	....	15	......	....	.....	....	......	....	121
3,506.17	94,058	99	82	3.04	3.7	1,278.03	13	69	432
942.92	28,326	27	87	2.91	3.3	152.43	2	6	184
1,187.44	23,269	26	75	3.81	5.1	....	......	....	77
1,407.27	26,851	41	55	2.86	5.2	....	......	....	132
838.64	49,860	27	154	2.59	1.7	2,214.27	6	110	247
1,888.41	115,345	71	141	2.31	1.6	4,313.32	11	226	391
3,321.00	80,000	81	83	3.46	4.2	2,547.32	5	73	358
529.47	18,646	18	86	2.45	2.8	284.36	4	16	140
837.36	30,081	34	81	2.25	2.8	2,371.72	4	82	158
1,947.34	63,900	61	87	2.66	3.0	3,222.39	8	112	334
1,853.39	52,408	54	70	2.49	3.5	7,647.25	5	291	250
2,751.71	73,277	62	103	3.85	3.8	1,587.20	4	63	250
474.11	13,642	19	61	2.08	3.5	190.28	1	15	75
2,883.71	122,169	65	159	3.75	2.4	993.73	3	35	341
447.40	....	7	......	....	.....	....	......	....	50
1,541.30	59,359	47	111	2.85	2.6	4,030.86	7	180	286
1,082.02	24,328	30	70	3.11	4.4	1,051.68	3	46	133
1,386.73	24,637	47	46	2.57	5.6	102.20	1	10	168
16,778.12	772,213	360	193	4.20	2.2	47,521.33	35	2,014	8,519
11,492.35	333,796	190	159	5.49	3.4	16,302.32	30	667	2,436
1,987.73	52,310	49	91	3.45	3.8	....	......	....	167

STATEMENT "E"

Cost of Power to Municipalities and Rates to Consumers for Domestic Service—Commercial Light Service—Power Service in Urban Municipalities Served by the Hydro-Electric Power Commission for the Year 1930

In Statement "E" are presented the rate schedules applicable to consumers for domestic service, for commercial light service and for power service in each of the co-operating municipalities receiving service at cost through the Hydro-Electric Power Commission.* The cost per horsepower of the power supplied at wholesale by the Commission to the municipality, which is an important factor in determining the rates to consumers, is also stated.

Cost of Power to Municipalities

The figures of the first column in the table represented the total cost for the year of the power supplied by the Commission to the municipality, divided by the number of horsepower supplied. Details respecting these costs are given in the "Cost of Power" tables relating to the several systems, as presented in Section IX, and an explanation of the items making up the cost of power is given in the introduction to that Section.

Rates to Consumers

The Power Commission Act stipulates that "The rates chargeable by any municipal corporation generating or receiving and distributing electrical power or energy shall at all times be subject to the approval and control of the Commission." In accordance with the Act and in pursuance of its fundamental principle of providing service at cost, the Commission requires that accurate cost records be kept in each municipality, and exercises a continuous supervision over the rates charged to consumers.

From the commencement of its operations, the Commission introduced in the municipalities which it serves, scientifically-designed rate schedules for each of the three main classes into which the electrical service is usually divided, namely: residential or domestic service, commercial light service, and power service, and the schedules in use during the past year are presented in the tables of this statement.

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*Except townships served as parts of rural power districts, for which consult latter part of Section III.

Domestic Service: Domestic rates apply to electrical service in residences, for all household purposes, including lighting, cooking and the operation of all domestic appliances.

Commercial Light Service: Electrical energy used in stores, offices, churches, schools, public halls and institutions, hotels, public boarding-houses, and in all other premises for commercial purposes, including sign and display lighting, is billed at commercial lighting rates.

Power Service: The rate schedules given for power service in Statement "E" are those governing the supply of power at retail by each of the local municipal utilities. The average amount of power sold, per consumer, under these rates is approximately 40 horsepower—consult Statement "D." The Commission serves certain large power consumers direct on behalf of the various systems of municipalities.

The rates for power service, as given in the tables, are the rates for 24-hour unrestricted power at secondary distribution voltage. For service at primary distribution voltage the rates are usually five per cent lower than those stated. In municipalities where the load conditions and other circumstances permit, lower rates are available for 10-hour power, and for other forms of restricted service. For these classifications, discounts additional to those listed in the table are applicable.

The service charge relates to the connected load or to the maximum demand, as measured by a 10-minute average peak, where a demand meter is installed. The prompt payment discount of 10 per cent on the total monthly bill is given for settlement within 10 days.

Under the tabulation of rates for power service there is a column headed "Basis of rate 130 hours monthly use of demand." This column shows approximately the net annual amount payable for a demand of one horsepower, assuming a monthly use of 130 hours, which includes 30 hours' use each month at the third energy rate. Broadly, the figures in this column serve to indicate approximately the relative cost of power service in the different municipalities listed.

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for for the Year 1930, in Urban Municipalities

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hr. per month	Per kw-hr. per month			
	$ c.	cents		cents	cents	$ c.	%
Acton	32.28	33–66	60	2.2	1.1	0.83	10
Agincourt	36.63	33–66	50	4	2	1.11	10
Ailsa Craig	45.98	33–66	55	3.5	1.5	0.83	10
Alexandria	62.04	33–66	60	5	2	1.11	10
Alliston	54.92	33–66	40	5	2	1.67	10
Alvinston	88.38	33–66	60	6	2	2.22	10
Amherstburg	35.03	33–66	55	3	1.5	0.83	10
Ancaster twp	29.42	33–66	55	3	1.5	0.83	10
Apple Hill	54.65	33–66	60	6	2	1.66	10
Arkona	70.59	33–66	55	5	2	1.66	10
Arthur	69.96	33–66	40	6	2	1.67	10
Athens	54.75	33–66	30	8	2	3.05	10
Aylmer	32.21	33–66	60	2.4	1.2	0.83	10
Ayr	35.21	33–66	60	2.5	1.25	1.11	10
Baden	30.86	33–66	60	2.5	1.25	0.83	10
Barrie	31.52	33–66	60	2	1	0.83	10
Barton twp	27.82	33–66	55	3	1.5	1.11	10
Beachville	29.02	33–66	55	3	1.5	0.83	10
Beaverton	33.68	33–66	60	2.5	1.25	1.11	10
Beeton	66.65	33–66	35	7	2	1.67	10
Belle River	34.60	33–66	55	3.5	1.5	1.11	10
Belleville	29.90	33–66	60	3	1.5	0.83	10
Blenheim	37.37	33–66	60	2.5	1.25	0.83	10
Bloomfield	55.66	33–66	50	3	1.5	0.83	10
Blyth	54.17	33–66	50	4	2	1.66	10
Bolton	41.77	33–66	55	3	1.5	1.11	10
Bothwell	43.14	33–66	60	2.5	1.25	0.83	10
Bradford	64.08	33–66	35	5.5	2	1.67	10
Brampton	27.31	33–66	60	2	1	0.83	10
Brantford	25.84	33–66	60	2	1	0.83	10
Brantford twp	29.42	33–66	60	2.5	1.25	1.11	10
Brechin	52.93	33–66	45	5	2	1.67	10
Bridgeport	36.29	33–66	55	3	1.5	0.83	10
Brigden	66.89	33–66	60	4	2	1.38	10
Brighton	36.00	33–33	60	5.5	2	1.11	10
Brockville	30.76	33–66	50	2	1	0.83	10
Brussels	48.97	33–66	50	4	2	1.66	10
Burford	32.17	33–66	60	2.5	1.25	1.11	10
Burgessville	42.21	33–66	50	4	2	1.11	10
Caledonia	26.93	33–66	60	2.5	1.25	0.83	10

NOTE.—Domestic service charge—33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when over 2,000 watts.

"E"

Domestic Service—Commercial Light Service—Power Service Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 50 cents	First 100 hrs per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	$ c.	%	$ c.	$ c.	cents	cents	cents	$ c.	%	%
5	2.2	0.6	0.83	10	25.00	1.00	2	1.3	0.33	....	......	10
5	4	1	1.11	10	32.00	1.00	3.1	2	0.33	....	......	10
5	3.5	0.75	0.83	10	32.00	1.00	3.1	2	0.33	....	......	10
5	5	1	1.66	10	40.00	1.00	4.3	2.8	0.33	....	......	10
5	5	1	1.67	10	40.00	1.00	4.3	2.8	0.33	....	......	10
7.5	6	1	2.22	10	59.00	1.00	7.1	4.7	0.33	min. 3.00	......	10
5	3	0.75	0.83	10	37.00	1.00	3.8	2.5	0.33	....	......	10
5	3	0.75	0.83	10	31.00	1.00	2.9	1.9	0.33	....	......	10
5	6	1	2.22	10	55.00	1.00	6.5	4.3	0.33	....	......	10
7.5	5	1	1.66	10	55.00	1.00	6.5	4.3	0.33	....	......	10
5	6	1	1.67	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	8	1	3.33	10	60.00	1.00	7.2	4.8	0.33	....	......	10
5	2.4	0.6	0.83	10	26.00	1.00	2.2	1.4	0.33	....	......	10
5	2.5	0.75	1.11	10	38.00	1.00	4	2.6	0.33	....	......	10
5	2.5	0.75	0.83	10	26.00	1.00	2.2	1.4	0.33	....	......	10
5	2	1	0.83	10	18.00	1.00	1.9	1.2	0.33	....	25	10
5	3	1.5	1.11	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	3	0.75	0.83	10	21.00	1.00	1.8	1.1	0.33	....	10	10
5	2.5	1	1.11	10	25.00	1.00	2	1.3	0.33	....	......	10
5	7	1	1.67	10	43.00	1.00	4.7	3.1	0.33	....	......	10
5	3.5	0.75	1.11	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	3	1.5	0.83	10	24.00	1.00	1.9	1.3	0.33	....	10	10
5	2.5	0.75	0.83	10	34.00	1.00	3.4	2.2	0.33	....	......	10
5	3	1	0.83	10	45.00	1.00	4.9	3.3	0.33	....	......	10
5	4	1	1.66	10	55.00	1.00	6.5	4.3	0.33	....	......	10
5	3	1	1.11	10	36.00	1.00	3.7	2.4	0.33	....	......	10
5	2.5	0.75	0.83	10	38.00	1.00	4	2.6	0.33	....	......	10
5	5.5	1	1.67	10	40.00	1.00	4.3	2.8	0.33	....	......	10
5	2	0.75	0.83	10	18.00	1.00	1.9	1.2	0.33	....	25	10
......	†3.5 ††1.75	0.35	0.83	10	23.00	1.00	2.1	1.4	0.33	....	10	10
5	2.5	0.75	1.11	10	24.00	1.00	2.3	1.5	0.33	....	10	10
5	5	1	1.67	10	45.00	1.00	4.9	3.3	0.33	....	......	10
5	3	0.75	0.83	10	32.00	1.00	3.1	2	0.33	....	......	10
5	4	0.75	1.38	10	48.00	1.00	5.4	3.6	0.33	....	......	10
5	5.5	2	1.11	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	2	0.75	0.83	10	22.00	1.00	1.9	1.3	0.33	....	10	10
5	4	1	1.66	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	2.5	0.75	1.11	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	4	1	1.11	10	35.00	1.00	3.5	2.3	0.33	min. 2.22	......	10
5	2.5	0.75	0.83	10	26.00	1.00	2.2	1.4	0.33	....	......	10

†First 30 hours per kw-hr.
††Next 70 hours per kw-hr.

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for for the Year 1930, in Urban Municipalities

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hr. per month	Per kw-hr. per month			
	$ c.	cents		cents	cents	$ c.	%
Campbellville	54.19	33–66	40	6	2	2.22	10
Cannington	36.88	33–66	55	3	1.5	1.11	10
Cardinal	53.73	33–66	50	3.5	2	1.39	10
Carleton Place	32.32	33–66	50	4	2	0.83	10
Cayuga	45.29	33–66	45	5	2	1.66	10
Chatham	28.55	33–66	60	2.5	1.11	0.83	10
Chatsworth	45.61	33–66	40	5.5	2	1.67	10
Chesley	40.06	33–66	55	3	1.5	1.11	10
Chesterville	39.86	33–66	50	3	1.5	0.83	10
Chippawa	25.26	33–66	60	2.5	1.25	1.11	10
Clifford	55.67	33–66	50	4	2	1.66	10
Clinton	34.82	33–66	60	2.5	1.5	1.11	10
Coldwater	33.11	33–66	55	2.5	1.25	1.11	10
Collingwood	39.39	33–66	55	2.5	1	0.83	10
Comber	44.10	33–66	50	4	2	1.38	10
Cookstown	57.54	33–66	35	7	2	1.67	10
Cottam	40.16	33–66	50	4	2	1.66	10
Courtright	68.98	33–66	50	6	2	2.22	10
Creemore	51.53	33–66	55	3	1.5	0.83	10
Dashwood	46.20	33–66	45	5	2	1.38	10
Delaware	32.67	33–66	50	4	2	1.11	10
Dorchester	35.74	33–66	55	3	1.5	0.83	10
Drayton	52.29	33–66	55	3.5	1.5	1.11	10
Dresden	43.22	33–66	60	2.5	1.25	1.11	10
Drumbo	49.04	33–66	50	4	1.5	1.11	10
Dublin	57.89	33–66	50	5	2	1.67	10
Dundalk	34.86	33–66	55	3	1.5	1.11	10
Dundas	23.46	33–66	60	2	1	0.83	10
Dunnville	33.24	33–66	60	2.5	1.5	0.83	10
Durham	33.31	33–66	50	2.5	1.25	0.83	10
Dutton	34.28	33–66	60	2.4	1.2	0.83	10
East Windsor	29.11	33–66	60	2.5	1	0.83	10
East York twp	30.24	33–66	60	2.2	1.2	0.83	10
Elmira	29.76	33–66	60	2.5	1.25	0.83	10
Elmvale	37.58	33–66	55	3	1.5	0.83	10
Elmwood	45.98	33–33	45	5	2	1.39	10
Elora	37.13	33–66	55	3	1.5	1.11	10
Embro	46.19	33–66	50	4	2	1.67	10
Erieau	56.98	33–66	45	5	2	1.67	10
Erie Beach	62.22	33–66	50	6	2	1.94	10

NOTE.—Domestic service charge—33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when over 2,000 watts.

"E"—Continued

Domestic Service—Commercial Light Service—Power Service Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 50 cents	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	$ c.	%	$ c.	$ c.	cents	cents	cents	$ c.	%	%
5	6	1	2.22	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	3	1	1.11	10	43.00	1.00	4.7	3.1	0.33	....	......	10
5	3.5	1	1.94	10	40.00	1.00	4.3	2.8	0.33	min. 3.33	......	10
5	4	1	0.83	10	27.00	1.00	2.3	1.5	0.33	....	......	10
5	5	1	1.66	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	2.5	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	....	10	10
5	5.5	1	1.67	10	45.00	1.00	4.9	3.3	0.33	....	......	10
5	3	1	1.11	10	32.00	1.00	3.1	2	0.33	....	......	10
5	3	1	0.83	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	2.5	0.75	1.11	10	25.00	1.00	2	1.3	0.33	....	......	10
5	4	1	1.66	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	2.5	1	1.11	10	36.00	1.00	3.7	2.4	0.33	....	......	10
5	2.5	1	1.11	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	2.5	1	0.83	10	20.00	1.00	1.6	1	0.33	....	10	10
5	4	1	1.38	10	38.00	1.00	4	2.6	0.33	min. 3.33	......	10
5	7	1	1.67	10	43.00	1.00	4.7	3.1	0.33	....	......	10
5	4	1	1.66	10	43.00	1.00	4.7	3.1	0.33	min. 2.22	......	10
5	6	1	2.22	10	55.00	1.00	6.5	4.3	0.33	....	......	10
5	3	1	0.83	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	5	1	1.38	10	50.00	1.00	5.7	3.8	0.33	min. 2.77	......	10
5	4	1	1.11	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	3	1	0.83	10	34.00	1.00	3.4	2.2	0.33	....	......	10
5	3.5	0.75	1.11	10	40.00	1.00	4.3	2.8	0.33	....	......	10
5	2.5	0.75	1.11	10	33.00	1.00	3.2	2.1	0.33	....	......	10
5	4	1	1.11	10	44.00	1.00	4.8	3.2	0.33	....	......	10
5	5	1	1.67	10	45.00	1.00	4.9	3.3	0.33	....	......	10
5	3	1	1.11	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	2	0.6	0.83	10	19.00	1.00	2	1.4	0.33	....	25	10
5	2.5	0.75	0.83	10	23.00	1.00	2.1	1.4	0.33	....	10	10
5	2.5	1	0.83	10	24.00	1.00	2.3	1.5	0.33	....	10	10
5	2.4	0.75	0.83	10	24.00	1.00	2.3	1.5	0.33	....	10	10
5	2.5	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	....	10	10
5	2.2	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	....	10	10
5	2.5	0.75	0.83	10	22.00	1.00	1.9	1.3	0.33	....	10	10
5	3	1	0.83	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	5	1	1.39	10	45.00	1.00	4.9	3.3	0.33	....	......	10
5	3	0.75	1.11	10	26.00	1.00	2.2	1.4	0.33	....	......	10
5	4	1	1.67	10	42.00	1.00	4.6	3	0.33	min. 2.22	......	10
5	5	1	1.67	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	6	1	1.94	10	60.00	1.00	7.2	4.8	0.33	....	......	10

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for for the Year 1930, in Urban Municipalities

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hr. per month	Per kw-hr. per month			
	$ c.	cents		cents	cents	$ c.	%
Essex	32.31	33–66	55	3	1.25	0.83	10
Etobicoke twp.	27.07	33–66	60	2.2	1.2	0.83	10
Exeter	34.17	33–66	55	3	1.5	0.83	10
Fergus	35.57	33–66	55	3	1.5	1.11	10
Finch	63.99	33–66	60	6	2	2.22	10
Flesherton	39.86	33–66	55	3.5	1.5	1.11	10
Fonthill	31.01	33–66	55	3	1.5	1.38	10
Forest	45.08	33–66	55	3.5	1.5	1.11	10
Forest Hill	.....	33–66	60	2.2	1.3	0.83	10
Fort William	22.51	33–66	50	2.5	1	0.83	10
Galt	25.94	33–66	60	2.5	1.25	0.83	10
Gamebridge	.....	33–66	45	5	2	1.67	10
Georgetown	34.76	33–66	60	2	1	0.83	10
Glencoe	56.18	33–66	55	3.5	2	1.11	10
Glen Williams	.....	33–66	60	3	1.5	0.83	10
Goderich	38.89	33–66	55	3	1.5	0.83	10
Grand Valley	53.62	33–66	45	5	2	1.39	10
Granton	46.92	33–66	55	3	1.5	1.11	10
Gravenhurst	20.91	33–66	60	2	1	0.83	10
Guelph	24.94	33–33	60	2	1	0.83	10
Hagersville	27.70	33–66	60	2	1	0.83	10
Hamilton	23.00	33–66	60	2	1	0.83	10
Hanover	33.94	33–66	55	3	1.5	0.83	10
Harriston	40.51	33–66	55	3	1.5	1.11	10
Harrow	33.75	33–66	55	3	1.5	0.83	10
Havelock	43.81	33–66	50	5	2	0.83	10
Hensall	42.15	33–66	55	3.5	1.5	1.11	10
Hespeler	27.73	33–66	60	2.5	1.25	0.83	10
Highgate	43.33	33–66	50	4	2	1.11	10
Holstein	89.18	33–66	60	9	5	1.67	10
Hornings Mills	.....	33–66	30	8	2	1.67	10
Humberstone	29.53	33–66	60	2.5	1.25	0.83	10
Huntsville	23.18	33–66	55	3	1.5	0.83	10
Ingersoll	26.06	33–66	60	2	1.2	0.83	10
Jarvis	34.12	33–66	50	4	2	1.11	10
Kemptville	37.25	33–66	45	4	2	0.83	10
Kincardine	54.75	33–33	40	4	2	1.39	10
Kingston	24.00-36.00	33–66	50	2	1.5	0.83	10
Kingsville	33.40	33–66	55	3	1.25	0.83	10
Kirkfield	49.44	33–66	40	6	2	2.22	10

NOTE.—Domestic service charge—33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when over 2,000 watts.

"E"—Continued

Domestic Service—Commercial Light Service—Power Service Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 50 cents	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	$ c.	%	$ c.	$ c.	cents	cents	cents	$ c.	%	%
5	3	0.75	0.83	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	2.2	0.6	0.83	10	21.00	1.00	1.8	1.1	0.33	....	10	10
5	3	0.75	0.83	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	3	1.5	1.11	10	31.00	1.00	2.9	1.9	0.33	....	......	10
5	6	1	3.05	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	3.5	1	1.11	10	40.00	1.00	4.3	2.8	0.33	....	......	10
5	3	0.75	1.38	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	3.5	0.75	1.11	10	42.00	1.00	4.6	3	0.33	....	......	10
5	2.2	0.75	0.83	10	25.00	1.00	2	1.4	0.5	max. 2.78	......	10
5	3	1	0.83	10	19.75	1.00	1.75	1	0.1	....	......	10
5	2.5	0.6	0.83	10	20.00	1.00	1.6	1	0.33	....	10	10
5	5	1	1.67	10	45.00	1.00	4.9	3.3	0.33	....	......	10
5	2	0.5	0.83	10	21.00	1.00	1.8	1.1	0.33	....	10	10
5	3.5	1	1.11	10	48.00	1.00	5.4	3.6	0.33	....	......	10
5	3	0.75	0.83	10	36.00	1.00	3.7	2.4	0.33	....	......	10
5	3	0.75	0.83	10	33.00	1.00	3.2	2.1	0.33	....	......	10
5	5	1	1.39	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	3	1	1.11	10	33.00	1.00	3.2	2.1	0.33	....	......	10
5	2	1	0.83	10	18.00	1.00	1.9	1.2	0.33	....	25	10
5	2	0.5	0.83	10	15.00	1.00	1.3	0.8	0.33	....	25	10
5	2	0.75	0.83	10	22.00	1.00	1.9	1.3	0.33	....	10	10
......	†3.5 ††1.75	0.35	0.83	10	20.00	1.00	1.67	1.11	0.133	....	10	10
5	3	1	0.83	10	26.00	1.00	2.2	1.4	0.33	....	......	10
5	3	1	1.11	10	32.00	1.00	3.1	2	0.33	....	......	10
5	3	1	0.83	10	38.00	1.00	4	2.6	0.33	min. 2.22	......	10
5	5	1	0.83	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	3.5	1	1.11	10	35.00	1.00	3.5	2.3	0.33	min. 2.22	......	10
5	2.5	0.75	0.83	10	18.00	1.00	1.9	1.2	0.33	....	25	10
5	4	1	1.11	10	38.00	1.00	4	2.6	0.33	....	......	10
5	9	5	1.67	10	74.00	1.00	9.3	6.2	0.33	....	......	10
5	8	1	1.67	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	2.5	0.75	0.83	10	28.00	1.00	2.6	1.7	0.33	....	......	10
5	3	1	0.83	10	28.00	1.00	2.5	1.6	0.33	....	......	10
5	2	0.6	0.83	10	20.00	1.00	1.6	1	0.33	....	10	10
5	4	0.75	1.11	10	32.00	1.00	3.1	2	0.33	....	......	10
5	4	1	1.11	10	38.00	1.00	4	2.6	0.33	....	......	10
5	4	1	1.39	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	2	1	0.83	10	20.00	1.00	1.5	1	0.33	....	10	10
5	3	0.75	0.83	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	6	1	2.22	10	45.00	1.00	4.9	3.3	0.33	....	......	10

†First 30 hours per kw-hr.
††Next 70 hours per kw-hr.

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for for the Year 1930, in Urban Municipalities

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hr. per month	Per kw-hr. per month			
	$ c.	cents		cents	cents	$ c.	%
Kitchener	25.58	33–66	60	2	1.2	0.83	10
Lakefield	38.72	33–33	50	3.5	2	0.83	10
Lambeth	37.81	33–66	50	4	2	1.38	10
Lanark	45.34	33–66	50	4.5	2	1.11	10
Lancaster	92.91	33–66	60	6	2	1.94	10
LaSalle	31.89	33–66	50	4	2	1.11	10
Leamington	34.42	33–66	55	3	1.25	0.83	10
Lindsay	38.88	33–66	50	3	2	0.83	10
Listowel	34.89	33–66	60	2.5	1.25	1.11	10
London	24.66	33–66	60	2	1	0.83	10
London twp	31.72	33–66	55	3	1.5	1.11	10
Lucan	32.97	33–66	55	3.5	1.5	1.11	10
Lucknow	60.71	33–66	45	4.5	2	1.67	10
Lynden	36.97	33–66	55	3	1.5	1.38	10
Madoc	53.62	33–66	50	4	2	0.83	10
Markdale	35.22	33–66	55	3	1.5	1.11	10
Markham	38.78	33–66	55	3.5	1.5	1.11	10
Marmora	45.11	33–66	60	5	2	1.11	10
Martintown	51.35	33–66	60	6	2	1.66	10
Maxville	66.93	33–66	60	7.2	2	1.66	10
Meaford	39.65	33–66	55	3	1.5	0.83	10
Merlin	39.88	33–66	50	4.5	2	1.11	10
Merritton	21.52	33–66	60	2	1	0.83	10
Midland	28.79	33–66	60	2	1	0.83	10
Milton	30.39	33–66	55	3	1.5	0.83	10
Milverton	33.89	33–66	60	2.5	1.25	1.11	10
Mimico	25.08	33–66	60	2.2	1.2	0.83	10
Mitchell	30.65	33–33	60	2.5	1.5	0.83	10
Moorefield	57.85	33–66	50	4	2	1.11	10
Mount Brydges	38.10	33–66	55	3	1.5	1.11	10
Mount Forest	39.38	33–66	60	2.25	1.25	0.83	10
Napanee	34.94	33–33	60	4.5	2	0.83	10
Neustadt	94.10	33–66	60	8	2	1.67	10
Newbury	53.79	33–66	45	5	2	1.38	10
New Hamburg	32.40	33–66	60	2.5	1.5	0.83	10
New Toronto	27.51	33–66	60	2	1.1	0.83	10
Niagara Falls	19.50	*3	....	**2	1	0.83	10
Niagara-on-the-Lake	25.45	33–66	60	2.5	1.25	0.83 to 1.11	10
Nipigon twp	26.54	33–66	50	4	2	1.39	10
North York twp	30.29	33–66	55	3	1.5	1.11	10

NOTE.—Domestic service charge—33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when over 2,000 watts.

*Service charge per 100 sq. ft.

**Per kw-hr. for first 3 kw-hr. per 100 sq. ft.

"E"—Continued

Domestic Service—Commercial Light Service—Power Service Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min. 50 cents	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	$ c.	%	$ c.	$ c.	cents	cents	cents	$ c.	%	%
5	2	0.75	0.83	10	19.00	1.00	2	1.4	0.33	....	25	10
5	3.5	1	0.83	10	27.00	1.00	2.3	1.5	0.33	....	......	10
5	4	1	1.38	10	38.00	1.00	4	2.6	0.33	....	......	10
5	4.5	1	1.38	10	60.00	1.00	7.2	4.8	0.33	....	......	10
5	6	1	2.78	10	69.00	1.00	8.6	5.7	0.33	....	......	10
5	4	1	1.11	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	3	0.75	0.83	10	32.00	1.00	3.1	2	0.33	....	......	10
5	3	1	0.83	10	20.00	1.00	1.6	1	0.33	....	10	10
5	2.5	0.75	1.11	10	26.00	1.00	2.2	1.4	0.33	....	......	10
5	2	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	....	25	10
5	3	0.75	1.11	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	3.5	0.75	1.11	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	4.5	1	1.67	10	43.00	1.00	4.7	3.1	0.33	....	......	10
5	3	1.5	0.83	10	32.00	1.00	3.1	2.0	0.33	....	......	10
5	4	1	0.83	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	3	1	1.11	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	3.5	1	1.11	10	38.00	1.00	4	2.6	0.33	....	......	10
5	5	1	1.11	10	40.00	1.00	4.3	2.8	0.33	....	......	10
5	6	1	2.22	10	55.00	1.00	6.5	4.3	0.33	....	......	10
5	7	1	2.22	10	65.00	1.00	8	5.3	0.33	....	......	10
5	3	1	0.83	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	4.5	1	1.11	10	37.00	1.00	3.8	2.5	0.33	min. 2.22	......	10
5	2	0.75	0.83	10	20.00	1.00	1.6	1	0.33	max. 2.67 min. 2.06	10	10
5	2	1	0.83	10	17.00	1.00	1.7	1.1	0.33	....	25	10
5	3	0.75	0.83	10	26.00	1.00	2.2	1.4	0.33	....	......	10
5	2.5	0.75	1.11	10	26.00	1.00	2.2	1.4	0.33	....	......	10
5	2.2	0.6	0.83	10	22.00	1.00	1.9	1.3	0.33	....	10	10
5	2.5	0.75	0.83	10	26.00	1.00	2.2	1.4	0.33	....	......	10
5	4	1	1.11	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	3	0.75	1.11	10	36.00	1.00	3.7	2.4	0.33	....	......	10
5	2.25	1	0.83	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	4.5	2	0.83	10	28.00	1.00	2.5	1.6	0.33	....	......	10
5	8	1	1.67	10	40.00	1.00	4.3	2.8	0.33	....	......	10
5	5	1	1.38	10	53.00	1.00	6.2	4.1	0.33	....	......	10
5	2.5	0.75	0.83	10	28.00	1.00	2.5	1.6	0.33	....	......	10
5	2	0.6	0.83	10	20.00	1.00	1.6	1	0.33	....	10	10
5	2	0.35	0.83	10	15.00	1.00	1.3	0.8	0.33	....	25	10
5	2.5	0.75	0.83	10	28.00	1.00	2.5	1.6	0.33	min. 2.00	......	10
5	4	1	1.39	10	40.00	1.00	4.3	2.8	0.33	....	......	10
5	3	0.75	1.11	10	30.00	1.00	2.8	1.8	0.33	....	......	10

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for for the Year 1930, in Urban Municipalities

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hr. per month	Per kw-hr. per month			
	$ c.	cents		cents	cents	$ c.	%
Norwich	31.31	33–66	60	2.5	1.25	0.83	10
Norwood	36.87	33–66	50	5	2	1.11	.10
Oil Springs	42.12	33–66	50	4	2	1.11	10
Omemee	.....	33–66	60	4	2	1.11	10
Orangeville	40.30	33–33	55	3	1.5	1.11	10
Oshawa	33.94	33–66	40	3.5	2	0.83	10
Ottawa	12.50	*3	....	**2	1*** 0.5	0.83	10
Otterville	38.53	33–66	55	3	1.5	1.11	10
Owen Sound	30.10	33–66	60	2	1	0.83	10
Paisley	52.34	33–66	45	5	2	1.67	10
Palmerston	37.38	33–66	60	2.5	1.25	1.11	10
Paris	26.96	33–66	60	2	1.25	0.83	10
Parkhill	56.34	33–66	50	4	2	1.38	10
Penetang	33.37	33–66	60	2	1	0.83	10
Perth	30.44	33–66	55	3	1.5	0.83	10
Peterboro	28.26	33–66	50	2.5	1.25	0.83	10
Petrolia	37.42	33–66	60	2.5	1.25	0.83	10
Picton	43.24	33–66	60	2.5	1.25	0.83	10
Plattsville	61.71	33–66	45	5	2	1.66	10
Point Edward	36.37	33–66	55	3	1.5	0.83	10
Port Arthur	22.14	*3	....	**2	1.	0.83	10
Port Colborne	29.30	33–66	60	2.5	1.25	0.83	10
Port Credit	29.48	33–66	60	2.2	1.2	0.83	10
Port Dalhousie	26.24	33–33	60	2.5	1.25	0.83	10
Port Dover	37.91	33–66	50	3	1.5	1.11	10
Port Hope	35.65	33–33	60	4.5	2	0.83	10
Port McNicoll	32.33	33–66	50	3.5	1.5	0.83	10
Port Perry	47.68	33–66	50	3.5	1.5	1.11	10
Port Rowan	69.94	33–33	60	6	2	1.66	10
Port Stanley	38.02	33–66	55	3	1.5	0.83	10
Prescott	29.93	33–66	60	2	1	0.83	10
Preston	25.76	33–66	60	2.5	1.25	0.83	10
Priceville	78.52	33–66	60	8	2	1.67	10
Princeton	56.87	33–66	50	3.5	2	1.66	10
Queenston	30.33	33–66	65	3	1.5	1.38	10
Richmond	49.76	33–66	30	8	2	2.22	10
Richmond Hill	35.66	33–66	60	2.5	1.25	0.83	10
Ridgetown	36.31	33–66	60	2.5	1.25	0.83	10
Ripley	81.50	33–66	50	7	2	1.67	10
Riverside	30.52	33–66	55	3	1.25	0.83	10

NOTE.—Domestic service charge—33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when over 2,000 watts.

*Service charge per 100 sq. ft.

**Per kw-hr. for first 3 kw-hr. per 100 sq. ft.

***Per kw-hr. for next 3 kw-hr. per 100 sq. ft.

"E"—Continued

Domestic Service—Commercial Light Service—Power Service Served by the Hydro-Electric Power Commission

Commercial light service					Power service								
Service charge per 100 watts min. 50 cents	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	$ c.	%	$ c.	$ c.	cents	cents	cents	$ c.	%	%
5	2.5	0.75	0.83	10	28.00	1.00	2.5	1.6	0.33	....	......	10
5	5	1	1.11	10	40.00	1.00	4	2.6	0.33	....	......	10
5	4	1	1.11	10	34.00	1.00	3.4	2.2	0.33	....	......	10
5	4	1	1.11	10	37.00	1.00	3.8	2.5	0.33	....	......	10
5	3	1.5	1.11	10	32.00	1.00	3.1	2	0.33	....	......	10
5	3.5	1.5	0.83	10	23.00	1.00	2.1	1.4	0.33	....	10	10
	†5 ††2.2	0.5	0.83	10	20.00	1.00	1.8	1.2	0.15	....	15	10
5	3	1	1.11	10	36.00	1.00	3.7	2.4	0.33	....	......	10
5	2	1	0.83	10	18.00	1.00	1.9	1.2	0.33	....	25	10
5	5	1	1.67	10	55.00	1.00	6.5	4.3	0.33	....	......	10
5	2.5	1	1.11	10	26.00	1.00	2.2	1.4	0.33	....	......	10
5	2	0.75	0.83	10	18.00	1.00	1.9	1.2	0.33	....	25	10
5	4	1	1.38	10	48.00	1.00	5.4	3.6	0.33	....	......	10
5	2	1	0.83	10	23.00	1.00	2.1	1.4	0.33	....	10	10
5	3	1	0.83	10	23.00	1.00	2.1	1.4	0.33	....	10	10
5	2.5	1	0.83	10	20.00	1.00	1.6	1	‡0.33 0.22	....	10	10
5	2.5	0.75	0.83	10	29.00	1.00	2.6	1.7	0.33	....	......	10
5	2.5	1	0.83	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	5	1	1.66	10	48.00	1.00	5.4	3.6	0.33	min. 2.00	......	10
5	3	0.75	0.83	10	27.00	1.00	2.3	1.5	0.33	....	......	10
5	2	0.5	0.83	10	19.75	1.00	1.75	1	0.1	....	......	10
5	2.5	0.75	0.83	10	28.00	1.00	2.5	1.6	0.33	....	......	10
5	2.2	0.75	0.83	10	25.00	1.00	2	1.3	0.33	....	......	10
5	2.5	0.75	0.83	10	22.00	1.00	1.9	1.3	0.33	....	10	10
5	3	1	1.11	10	32.00	1.00	3.1	2	0.33	....	......	10
5	4.5	2	0.83	10	24.00	1.00	2.3	1.5	0.33	....	10	10
5	3.5	1	0.83	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	3.5	1	1.11	10	40.00	1.00	4.3	2.8	0.33	....	......	10
5	6	2	1.66	10	60.00	1.00	7.2	4.8	0.33	....	......	10
5	3	0.75	0.83	10	37.00	1.00	3.8	2.5	0.33	min. 1.11	......	10
5	2	1	0.83	10	22.00	1.00	1.9	1.3	0.33	....	10	10
5	2.5	0.75	0.83	10	19.00	1.00	2	1.4	0.33	....	25	10
5	8	1	1.67	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	3.5	1	1.66	10	42.00	1.00	4.6	3	0.33	....	......	10
5	3	1	1.38	10	25.00	1.00	2	1.3	0.33	....	......	10
5	8	1	2.77	10	60.00	1.00	7.2	4.8	0.33	....	......	10
5	2.5	0.75	0.83	10	25.00	1.00	2	1.3	0.33	....	......	10
5	2.5	0.75	0.83	10	23.00	1.00	2.1	1.4	0.33	....	10	10
5	7	1	1.67	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	3	0.8	0.83	10	28.00	1.00	2.5	1.6	0.33	....	......	10

†First 30 hours per kw-hr.
††Next 70 hours per kw-hr.

‡Next 260 hours per kw-hr.

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for for the Year 1930, in Urban Municipalities

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hr. per month	Per kw-hr. per month			
	$ c.	cents		cents	cents	$ c.	%
Rockwood	43.12	33–66	60	2.5	1.25	1.11	10
Rodney	43.06	33–66	55	3	1.5	0.83	10
Russell	61.78	33–66	60	6	2	1.66	10
St. Catharines	21.47	33–66	30 & 60	2	1	0.83	10
St. Clair Beach	33.85	33–66	55	3.5	1.5	1.66	10
St. George	35.73	33–66	60	2	1	0.83	10
St. Jacobs	29.80	33–66	60	2.5	1.25	1.11	10
St. Marys	33.12	33–66	60	2.5	1.25	1.11	10
St. Thomas	25.91	33–66	60	2	1	0.83	10
Sandwich	30.09	33–66	60	2.5	1	0.83	10
Sarnia	31.78	33–66	60	2.4	1.1	0.83	10
Scarboro twp	29.04	33–33	60	2.6	1.3	0.83	10
Seaforth	32.33	33–66	60	2.5	1.25	0.83	10
Shelburne	39.20	33–66	50	3	1.5	1.11	10
Simcoe	28.58	33–66	60	2	1.25	0.83	10
Smiths Falls	25.79	33–66	55	3	1.5	0.83	10
Springfield	42.35	33–66	55	3.5	1.5	1.11	10
Stamford twp	20.11	33–66	60	2	1.2	0.83	10
Stayner	41.03	33–66	55	2.5	1.25	0.83	10
Stirling	30.78	35	45	3	1.5	0.84 1.75	10
Stouffville	41.70	33–66	55	3.5	1.5	1.11	10
Stratford	27.61	33–66	60	2.1	1.25	0.83	10
Strathroy	30.89	33–66	60	2.5	1.25	0.83	10
Sunderland	50.38	33–66	45	5	2	1.39	10
Sutton	55.71	33–66	50	4.5	2	1.11	10
Tara	54.13	33–66	35	6	2	1.67	10
Tavistock	33.22	33–66	60	2.5	1.25	0.83	10
Tecumseh	32.63	33–66	55	3.5	1.5	1.11	10
Teeswater	57.99	33–66	60	5	2	1.67	10
Thamesford	37.01	33–66	60	2.5	1.5	1.11	10
Thamesville	38.13	33–66	55	3	1.25	0.83	10
Thedford	65.58	33–66	50	5	2	1.38	10
Thorndale	63.07	33–66	50	4	2	1.38	10
Thornton	70.25	33–66	60	8	2	1.67	10
Thorold	22.91	33–66	60	2	1	0.83	10
Tilbury	34.79	33–66	60	2.5	1.25	0.83	10
Tillsonburg	30.88	33–66	60	2	1.2	0.83	10
Toronto	24.55	*3	......	**2	1	0.83	10
Toronto twp	29.76	33–66	55	2.8	1.4	1.11	10
Tottenham	81.40	33–66	30	8	2	1.67	10

NOTE.—Domestic service charge—33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when over 2,000 watts.

*Service charge per 100 sq. ft.

**Per kw-hr. for first 3 kw-hr. per 100 sq. ft.

"E"—Continued

Domestic Service—Commercial Light Service—Power Service Served by the Hydro-Electric Power Commission

Commercial light service					Power service							
Service charge per 100 watts min 50 cents	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	$ c.	%	$ c.	$ c.	cents	cents	cents	$ c.	%	%
5	2.5	0.75	1.11	10	42.00	1.00	4.6	3	0.33	....	......	10
5	3	0.75	0.83	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	6	1	2.22	10	56.00	1.00	6.6	4.4	0.33	....	......	10
	†3.5 ††1.75	0.35	0.83	10	17.00	1.00	1.67	1.13	0.16	....	25	10
5	3.5	1	1.66	10	40.00	1.00	4.3	2.8	0.33	....	......	10
5	2	0.75	0.83	10	32.00	1.00	3.1	2	0.33	....	......	10
5	2.5	0.75	1.11	10	24.00	1.00	2.3	1.5	0.33	....	10	10
5	2.5	0.75	1.11	10	26.00	1.00	2.2	1.4	0.33	....	......	10
5	2	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	....	25	10
5	2.5	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	....	10	10
5	2.4	0.6	0.83	10	25.00	1.00	2	1.3	0.33	....	......	10
5	2.6	0.6	0.83	10	23.00	1.00	2.1	1.4	0.33	....	10	10
5	2.5	0.75	0.83	10	29.00	1.00	2.6	1.7	0.33	....	......	10
5	3	1	1.11	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	2	0.75	0.83	10	25.00	1.00	2	1.3	0.33	....	......	10
5	3	1	0.83	10	26.00	1.00	2.2	1.4	0.33	....	......	10
5	3.5	1	1.11	10	42.00	1.00	4.6	3	0.33	min. 2.22	......	10
5	2.25	0.5	0.83	10	18.00	1.00	1.9	1.2	0.33	....	25	10
5	2.5	1	0.83	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	2.5	1.25	0.83	10	31.50	1.00	3	2	0.25	....	......	10
5	3.5	1	1.11	10	43.00	1.00	4.7	3.1	0.33	....	......	10
5	2.1	0.75	0.83	10	24.00	1.00	2.3	1.5	0.33	....	10	10
5	2.5	0.75	0.83	10	27.00	1.00	2.3	1.5	0.33	....	......	10
5	5	1	1.39	10	52.00	1.00	6	4	0.33	....	......	10
5	4.5	1	1.11	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	6	1	1.67	10	58.00	1.00	6.9	4.6	0.33	....	......	10
5	2.5	0.75	0.83	10	25.00	1.00	2	1.3	0.33	....	......	10
5	3.5	0.8	1.11	10	32.00	1.00	3.1	2	0.33	....	......	10
5	5	1	1.67	10	40.00	1.00	4.3	2.8	0.33	....	......	10
5	2.5	0.75	1.11	10	31.00	1.00	2.9	1.9	0.33	....	......	10
5	3	0.75	0.83	10	32.00	1.00	3.1	2	0.33	....	......	10
5	5	1	1.38	10	55.00	1.00	6.5	4.3	0.33	....	......	10
5	4	1	1.38	10	48.00	1.00	5.4	3.6	0.33	min. 3.33	......	10
5	8	1	1.67	10	58.00	1.00	6.9	4.6	0.33	....	......	10
5	2	0.5	0.83	10	18.00	1.00	1.9	1.3	‡0.33 0.295	....	25	10
5	2.5	0.75	0.83	10	22.00	1.00	1.9	1.3	0.33	....	10	10
5	2	0.6	0.83	10	24.00	1.00	2.3	1.5	0.33	....	10	10
						A.C. *a*	1.5	0.75	0.40	....	......	10
	§4 & 2	1	0.83	10	......	D.C. *b*	2.5	1.25	0.60	....	......	10
5	2.8	0.75	1.11	10	23.00	1.00	2.1	1.4	0.33	....	10	10
5	8	1	1.67	10	58.00	1.00	6.9	4.6	0.33	....	......	10

†First 30 hours per kw-hr. ††Next 70 hours per kw-hr. ‡Next 260 hours per kw-hr.

§First 70 hours per kw-hr., 4 cents. Next 70 hours per kw-hr., 2 cents.

a A.C. Service charge $1.25 per h.p. for first 10 h.p., plus $1.00 per h.p. for additional h.p.

b D.C. Service charge $1.35 per h.p. for first 10 h.p., plus $1.00 per h.p. for additional h.p.

STATEMENT

Cost of Power to Municipalities and Rates to Consumers for for the Year 1930, in Urban Municipalities

Municipality	Annual cost to the Commission on the works to serve electrical energy to municipality on a horse power basis	Domestic service					
		Service charge per month	First rate		All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount
			Number of kw-hr. per month	Per kw-hr. per month			
	$ c.	cents		cents	cents	$ c.	%
Trafalgar twp., Area No. 1	....	55	60	3.5	2	1.11	10
Trafalgar twp., Area No. 2	....	80–1.10	55	3.5	2	1.67	10
Uxbridge	50.74	33–66	50	3.5	1.5	1.11	10
Victoria Harbour	40.45	33–66	55	3	1.5	1.11	10
Walkerville	26.38	33–66	60	2.5	1	0.83	10
Wallaceburg	33.53	33–66	60	2.4	1.11	0.83	10
Wardsville	60.38	33–66	40	6	2	1.66	10
Warkworth	43.20	33–66	50	5	2	1.55	10
Waterdown	28.16	33–66	60	2.5	1.25	0.83	10
Waterford	30.63	33–66	60	2	1	0.83	10
Waterloo	26.02	33–66	60	2	1.25	0.83	10
Watford	50.06	33–66	50	4	2	1.11	10
Waubaushene	41.80	33–66	55	2.5	1.25	1.11	10
Welland	21.85	33–66	60	2.2	1.1	0.83	10
Wellesley	41.67	33–66	50	3.5	1.5	1.11	10
Wellington	42.34	33–66	50	2.5	1.25	0.83	10
West Lorne	36.32	33–66	55	3	2	1.11	10
Weston	25.45	33–66	60	2	1	0.83	10
Wheatley	44.84	33–66	50	4	2	1.39	10
Whitby	33.51	33–66	60	3	1.25	0.94	20
Williamsburg	39.05	33–66	60	3	2	1.39	10
Windermere	88.47	33‡	....	8	2	2.22	10
Winchester	36.79	33–66	60	2.5	1.25	0.83	10
Windsor	26.25	33–66	60	2.5	1	0.83	10
Wingham	58.81	33–66	45	4	2	1.11	10
Woodbridge	31.88	33–66	60	2.5	1.25	0.83	10
Woodstock	24.67	33–66	60	2	1.2	0.83	10
Woodville	47.26	33–66	50	4	2	1.11	10
Wyoming	52.91	33–66	50	4.5	2	1.11	10
York twp	....	33–66	60	2.22	1.3	0.83	10
Zurich	56.91	33–66	50	4	2	1.38	10

NOTE.—Domestic service charge—33 cents per month per service when the permanently installed appliance load is under 2,000 watts and 66 cents per month when over 2,000 watts.

*Service charge per 100 sq. ft.

**Per kw-hr. for first 3 kw-hr. per 100 sq. ft.

‡According to consumers demand.

"E"—Concluded

Domestic Service—Commercial Light Service—Power Service Served by the Hydro-Electric Power Commission

Commercial light service					Power service								
Service charge per 100 watts min. 50 cents	First 100 hrs. per month per kw-hr.	All additional per kw-hr.	Minimum gross monthly bill	Prompt payment discount	Basis of rate 130 hours monthly use of demand	Service charge per h.p. per month	First 50 hr. per month per kw-hr.	Second 50 hr. per month per kw-hr.	All additional per kw-hr.	Minimum or maximum per h.p. per month	Local discount	Prompt payment discount
cents	cents	cents	$ c.	%	$ c.	$ c.	cents	cents	cents	$ c.	%	%
	†8 ††4	1	1.11	10	37.00	1.00	3.5	2.3	1	....	......	10
10	3.5	2	1.67	10	38.00	1.00	3.5	2.3	1.5	....	......	10
5	3.5	1	1.11	10	40.00	1.00	4.3	2.8	0.33	....	......	10
5	3	1	1.11	10	40.00	1.00	4.3	2.8	0.33	....		10
5	2.5	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	....	10	10
5	2.4	0.6	0.83	10	22.00	1.00	1.9	1.3	0.33	....	10	10
5	6	1	1.66	10	55.00	1.00	6.5	4.3	0.33	....	......	10
5	5	1	1.55	10	44.50	1.00	4.9	3.3	0.33	....	......	10
5	2.5	0.75	0.83	10	28.00	1.00	2.5	1.6	0.33	....	......	10
5	2	0.75	0.83	10	20.00	1.00	1.6	1	0.33	....	10	10
5	2.25	1	0.83	10	19.00	1.00	2	1.4	0.33	....	25	10
5	4	1	1.11	10	43.00	1.00	4.7	3.1	0.33	....	......	10
5	2.5	1	1.11	10	33.00	1.00	3.2	2.1	0.33	....	......	10
5	2.2	0.6	0.83	10	19.00	1.00	2	1.4	0.33	....	25	10
5	3.5	0.75	1.11	10	35.00	1.00	3.5	2.3	0.33	....	......	10
5	2.5	1	0.83	10	40.00	1.00	4.3	2.8	0.33	....	......	10
5	3	1	1.11	10	30.00	1.00	2.8	1.8	0.33	....	......	10
5	2	0.6	0.83	10	18.00	1.00	1.9	1.2	0.33	....	25	10
5	4	1	1.39	10	45.00	1.00	4.9	3.3	0.33	....	......	10
5.6	3	1	0.94	20	25.00	1.00	2	1.3	0.33	....	......	10
5	3	1	1.39	10	55.00	1.00	6.5	4.3	0.33	....	......	10
5	8	2	2.22	10	58.00	1.00	6.9	4.6	0.33	....	......	10
5	2.5	1	0.83	10	50.00	1.00	5.7	3.8	0.33	min. 2.22	......	10
5	2.5	0.8	0.83	10	23.00	1.00	2.1	1.4	0.33	....	10	10
5	4	1	1.11	10	40.00	1.00	4.3	2.8	0.33	....	......	10
5	2.5	0.75	0.83	10	22.00	1.00	1.9	1.3	0.33	....	10	10
5	2	0.6	0.83	10	17.00	1.00	1.7	1.1	0.33	....	25	10
5	4	1	1.11	10	40.00	1.00	4.3	2.8	0.33	....	......	10
5	4.5	1	1.11	10	50.00	1.00	5.7	3.8	0.33	....	......	10
5	2.2	0.75	0.83	10	25.00	1.00	2.0	1.4	0.5	max. 2.78	......	10
5	4	1	1.38	10	50.00	1.00	5.7	3.8	0.33	min. 2.77	......	10

†First 30 hours per kw-hr.
††Next 70 hours per kw-hr.

APPENDIX I

ACTS

CHAPTER 12

An Act to amend The Power Commission Act

Assented to 3rd April, 1930.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

Short title.

1. This Act may be cited as *The Power Commission Act, 1930.*

Rev. Stat., c. 57, amended.

2. *The Power Commission Act* is amended by adding thereto the following section:

Stabilization Fund Account.

11*a*.—(1) An account to be known as the "Stabilization Fund Account" shall be opened and maintained on the books of the Commission and there shall annually be placed to the credit of such account,—

What to be credited.

(*a*) an amount equal to ten cents per horse-power per annum on all electrical power or energy sold by the Commission in Ontario, such amount to be deducted from the revenues of the Commission,—

(*b*) interest at such rates as the Commission shall deem equitable and just upon balances remaining from time to time to the credit of the account.

Costs and expenses which may be charged to account.

(2) Costs and expenses incurred by the Commission which in the opinion of the Commission are for the protection or advancement of the interests in the undertakings under its supervision or control and are not properly chargeable to any system or to any municipal corporation under contract with the Commission may be charged by the Commission to the Stabilization Fund Account.

Rev. Stat., c. 57, s. 14, amended.

3. Section 14 of *The Power Commission Act* as amended by section 2 of *The Power Commission Act, 1928*, is amended by adding thereto the following subsection:

Repayments to Province out of funds in hands of Commission.

(1*a*) Notwithstanding anything in this Act, the Commission may in addition to the repayments out of sinking fund provided for under subsection 1 make further repayments on account of the advances by the Province to the Commission from time to time out of funds in its hands.

Rev. Stat., c. 57, s. 20, subs. 1, amended.

4. Subsection 1 of section 20 of *The Power Commission Act* is amended by inserting clause (*aa*) after clause (*a*) and by inserting clauses (*bb*) and (*bbb*) after clause (*b*):

To acquire Dominion Power and Transmission Company Limited.

(*aa*) Acquire by purchase the whole or any part of the property, assets and undertaking of Dominion Power and Transmission Company Limited, including shares held or owned by said company in any other company or companies of any kind or nature whatsoever, and to acquire the whole or any part of the properties, assets and undertakings of such other company or companies and to maintain and operate any property or properties so acquired.

Works in interprovincial boundaries.

(*bb*) Acquire by purchase, lease or otherwise, lands, waters, water privileges, water powers and works upon or adjacent to the boundary line between Ontario and any other province, and situate in Ontario, or in such other province, or partly in one and partly in the other of them, and erect, construct, maintain and operate upon any lands so acquired, works for the production and transmission of electrical power or energy, and enter into agreements with the Crown as representing such other province, or with any commission or department of the Government of such other province, or with any corporation or person interested in or affected by such works as to the terms and conditions upon which such works shall be carried on and any rights so acquired be exercised.

Acquiring shares in companies operating on such boundaries.

(*bbb*) Acquire by purchase in the open market or otherwise shares or stock of any company owning or controlling any such lands, waters, water privileges, water powers or works.

Rev. Stat., c. 57, s. 20, subs. 1, amended.

5. Subsection 1 of section 20 of *The Power Commission Act* is amended by inserting the following clause:

Purchasing shares in companies.

(*gg*) Acquire from time to time by purchase in the open market or otherwise, shares or stock in or the securities of any incorporated company carrying on the business of developing, distributing or transmitting electrical power or energy and for the purposes of this Act the acquisition of such shares, or stock, or securities shall be an investment in works.

Rev. Stat., c. 57, s. 20, subs. 3 (1929, c. 20, s. 4), amended.

6. Subsection 3 of section 20 of *The Power Commission Act* as re-enacted by section 4 of *The Power Commission Act, 1929*, is amended by adding thereto the following clause:

Judge's powers on inquiry as to apportionment of costs of waterway improvement.

(*a*) The judge, upon an inquiry under this section, shall have the like powers as a judge sitting in court including the power to compel the attendance of witnesses, to hear evidence on oath and to require the production of books, papers, documents, matters and things and the order of the judge shall be enforceable in the manner provided by *The Judges' Orders Enforcement Act*.

Rev. Stat., c. 111.

Rev. Stat., c. 57, amended.

7. *The Power Commission Act* is amended by adding thereto the following section:

Postponement of collection of costs and charges for works under certain circumstances.

43*a*. Where the Commission under an order of the Lieutenant-Governor in Council has been authorized to acquire lands or any other property, or to construct works for the purpose of developing, transmitting or distributing electrical power or energy

(*a*) in territory without municipal organization, or

(*b*) in territory within which the revenue from contracts entered into with municipal corporations and others is insufficient, at rates for power which the Commission deems reasonable, to meet operating expenses, costs of maintenance and to provide interest and sinking fund upon the cost of the works, or

(*c*) in territory where the Commission has reported that it is advisable that works should be constructed or extended in anticipation of a future demand for power,

the Lieutenant-Governor in Council may authorize the Commission to postpone the collection of costs and charges payable in respect of electrical power or energy supplied under contracts entered into with the Commission or any part thereof, and to carry the whole or any part or parts of such costs and charges, with interest thereon, to a special suspense account for such period or periods as may be fixed by Order-in-Council, and after the expiration of such period or periods

(*a*) to fix and determine the amount owing in respect of such costs and charges with accumulated interest thereon;

(*b*) to charge such costs and charges, with accumulated interest thereon, or so much thereof as the Commission shall deem just and equitable, to the capital costs of the works;

(*c*) to charge such costs and charges, with accumulated interest thereon, or so much thereof as the Commission may deem just, as cost of power supplied by the Commission;

(*d*) If at any time the revenues received by the Commission from operation of the works shall be sufficient, at rates for power deemed reasonable by the Commission, to meet operating charges, costs of maintenance, interest and sinking fund, and provide a surplus—such surplus, or so much thereof as the Commission may deem proper, shall be applied in reduction of any sums added to the capital costs of the works as provided for in clause (*b*) above;

(*e*) If the revenues from such works be insufficient to meet operating charges, costs of maintenance and interest and sinking fund on the costs of the works, any deficits so arising may, if the Commission shall so require, be charged and paid out of the stabilization fund account, but payment of any such amount out of the stabilization fund account shall in no way relieve any municipal corporation from its obligations under contract with the Commission and the works shall be and remain vested in the Commission until the amounts charged to the stabilization fund, with accumulated interest thereon, shall have been fully repaid in such fund.

Rev. Stat., c. 57, amended.

8. *The Power Commission Act* is amended by adding thereto the following section:

Granting of franchises by municipalities under contract with Commission prohibited.

44*a*.—(1) Where a municipal corporation has heretofore entered into or hereafter enters into a contract with the Commission to take power, either at the time of entering into the contract or, at any time thereafter, exclusively from the Commission, the municipal corporation shall not grant to any corporation or person any right or franchise to erect or lay down poles, wires, conduits or any other structures or works for the distribution of electrical power or energy in the municipality, either for the use of the municipal corporation or the inhabitants generally, or of any particular person, and every such right or franchise and every agreement therefor granted or entered into with or without the assent of the electors shall be null and void.

Proceedings for ascertaining rights where franchise claimed.

(2) Where it is alleged that any individual or corporation has erected or laid down upon, over or under any street or other highway in a municipality, any poles, wires, conduits or other structures or works for the transmission or distribution of electrical power or energy without the consent of the municipal corporation lawfully given under a by-law of the council thereof, or is continuing to maintain or use any such structures or works upon, over or under any such street or highway without lawful authority, the Lieutenant-Governor in Council upon the complaint of the municipal corporation or of any ratepayer, or of the Commission, may direct an enquiry by the Railway and Municipal Board or by a commission composed of two judges of the Supreme Court, and the Board or commission may enquire into the matter, and if, as a result of the enquiry it is found that such structures or works are upon, over or under any street or highway without lawful authority, the Board or Commission may order the removal of all such poles, wires, conduits or other structures upon such notice and upon such terms and conditions as the Board or commission may deem just or reasonable, and an order made by a commission under this subsection may be filed with the Registrar of the Supreme Court

and shall have the same force and effect and be enforceable in the like manner as a judgment of the Supreme Court.

When work to be deemed unlawfully upon the highway.

(*a*) Any such structure or work shall be deemed to be upon, over or under any street or highway without lawful authority where no such right or franchise is found to have existed or where the term for which the right or franchise was originally granted has expired, or where such right or franchise was not granted by by-law in compliance with the statutes relating thereto, and no such right or franchise shall be deemed to have been acquired by lapse of time or by any express or implied acquiescence on the part of the municipal corporation or of any other municipal corporation, company or individual formerly owning or controlling such street or highway or the lands included therein.

Rev. Stat., c. 57, s. 56, (1928, c. 19, s. 3), amended.

9. Section 56 of *The Power Commission Act* as re-enacted by section 3 of *The Power Commission Act, 1928*, is amended by adding thereto the following clause:

Cost of power to municipality.

(*d*) An amount equal to ten cents per horse-power per annum on all electrical power or energy sold by the Commission in Ontario, to be paid into the stabilization fund account provided for in section 11*a*.

Rev. Stat., c. 57, s. 82, amended.

10. Section 82 of *The Power Commission Act* is amended by adding thereto the following subsections:

Powers as to fixing municipal rates.

(2) Notwithstanding any thing in this Act contained, the Commission may from time to time—when in its opinion it is in the interests of the municipal corporations under contract with the Commission so to do—make orders fixing the rates to be charged by the corporation or commission of any municipality having a population of less than 200,000 for electrical power or energy supplied by the Commission.

Where amount collected proves insufficient.

(3) In a municipality where the rates fixed by the Commission under subsection 2 above prove insufficient to provide for the costs of supplying electrical power or energy in such municipality, the Commission may charge the deficit to the stabilization fund account and may from time to time impose such terms as to repayment of the amount so charged together with interest thereon, or any part thereof, or may relieve the municipality from obligation to repay the same to such extent as to the Commission may seem just and equitable.

Rev. Stat., c. 57, s. 97, subs. 2, amended.

11. Subsection 2 of section 97 of *The Power Commission Act* is amended by striking out the words "one hundred thousand" in the first line, and inserting in lieu thereof the words "sixty thousand," and by striking out the words "may, if the council of the city by by-law so declares" in the eighth line and inserting in lieu thereof the word "shall."

By-laws, confirmed.

12. By-laws numbers 2915 and 2916 of the corporation of the city of Belleville; by-laws numbers 1948 and 1959 of the corporation of the city of Oshawa; by-law number 6581 of the corporation of the city of Ottawa; by-law number 2832 of the corporation of the city of Peterborough; by-law number 1806 of the corporation of the town of Lindsay; by-law number 1316 of the corporation of the town of Napanee; by-laws numbers 1409 and 1410 of the corporation of the town of Port Hope; by-laws numbers 790, 791, 796, 798 and 799 of the corporation of the town of Southampton; by-law number A 192 of the corporation of the village of Brighton; by-law number 676 of the corporation of the township of Adjala; by-law number 168 of the corporation of the township of Ameliasburg; by-laws numbers 1036 and 1042B of the corporation of the township of Bastard and Burgess South; by-law number 697 of the corporation of the united townships of Belmont and Methuen; by-law number 631 of the corporation of the township of Cartwright; by-law number 986 of the corporation of the township of Crosby South; by-law number 195 of the corporation of the township of Crowland; by-law number 588 of the corporation of the township of East Luther; by-law number 1038 of the corporation of the township of East Whitby; by-law number 1053 of the corporation of the township of East Zorra; by-law number 6 of 1929 of the corporation of the township of Egremont; by-law number 525 of the corporation of the township of Essa; by-law number 3342 of the corporation of the township of Etobicoke; by-law number 208 of the corporation of the township of Front of Escott; by-law number 859 of the corporation of the township of Front of Leeds and Lansdowne; by-law number 181 of the corporation of the township of Front of Yonge; by-law number 341 of the corporation of the township of Gosfield South; by-law number 5 of 1929 of the corporation of the township of Grey; by-law number 335 of the corporation of the township of Hibbert; by-law number 409 of the corporation of the township of Hillier; by-law number 3 of 1929 of the corporation of the township of Howick; by-law number 680 of the corporation of the township of Kitley; by-law number 95 of the corporation of the township of Lochiel; by-law number 116B of the corporation of the township of Loughborough; by-law number 1040 of the corporation of the township of Manvers; by-law number 8 of 1929 of the corporation of the township of McKillop; by-law number 688 of the corporation of the township of Medonte; by-law number 12 of 1929 of the corporation of the township of Morris; by-law number 341 of the corporation of the township of Morrison; by-law number 335 of the corporation of the township of North Walsingham; by-law number 1198 of the corporation of the township of Orillia; by-law number 10 of 1929 of the corporation of the township of Osnabruck; by-law number 351 of the corporation of the township of Oxford; by-law number 6 of 1929 of the corporation of the township of Pittsburgh; by-law number 728 of the corporation of the township of Plantagenet North; by-law number 138 of the corporation of the township of Plantagenet South; by-law number 12 of 1929 of the corporation of the township of Portland; by-laws numbers 843, 849 and 854 of the corporation of the township of Rear of Leeds and Lansdowne; by-law number 724 of the corporation of the township of

South Dumfries; by-law number 456 of the corporation of the township of South Grimsby; by-law number 6 of 1928 of the corporation of the township of Stanley; by-law number 1088 of the corporation of the township of Toronto; by-laws numbers 532 and 553 of the corporation of the township of Tossorontio; by-law number 130 of 1929 of the corporation of the township of Tuckersmith; by-law number 142 of the corporation of the township of West Ferris; by-law number 1124 of the corporation of the township of Yarmouth; and all debentures issued or to be issued or purporting to be issued under any of the said by-laws which authorize the issue of debentures are confirmed and declared to be legal, valid and binding upon such corporations and the ratepayers thereof respectively and shall not be open to question upon any ground whatsoever notwithstanding the requirements of *The Power Commission Act* or the amendments thereto or any other general or special Act of this Legislature.

13. This Act shall come into force on the day upon which it receives the Royal Assent. Commencement of Act.

CHAPTER 13

An Act respecting The Central Ontario Power System

Assented to 3rd April, 1930.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario enacts as follows:

1. This Act may be cited as *The Central Ontario Power Act, 1930*. Short title.

2. All and every part of the property, assets, rights, contracts, privileges, licenses, franchises, undertakings and businesses and other properties vested in His Majesty the King as representing the Province of Ontario, by an Act passed in the sixth year of His Majesty's reign, chaptered 18, and still so vested, together with any property, assets, rights, contracts, privileges, licenses, franchises, undertakings and businesses and other properties, other than pulpwood limits in the township of Bruton, thereafter acquired by His Majesty the King in the right of the Province of Ontario or by The Hydro-Electric Power Commission of Ontario (hereinafter referred to as the "Commission"), in connection with or for the purpose of carrying on and administering such first-mentioned property, assets, rights, contracts, privileges, licenses, franchises, undertakings and businesses (all of which are hereinafter referred to as "the properties") are hereby declared to be transferred to and vested in the Commission. Central Ontario System vested in Commission.

Transfer to date from 1st November, 1928.

3. The properties declared to be vested in the Commission under section 2 shall be deemed for all purposes to have been acquired by the Commission on the 1st day of November, 1928, and thereafter such properties shall be deemed to have been and shall be held, operated, used and maintained by the Commission under the provisions of *The Power Commission Act* and of this Act.

Rev. Stat., c. 57.

Price to be paid for system.

4. There shall be chargeable to the Commission in the books of the Treasurer of Ontario the sum of $15,173,235.21 as the purchase price of the said properties as of the 1st day of November, 1928, and the said sum, together with all advances on capital account thereafter made by the Province to the Commission in respect of the said properties, less repayments by the Commission to the Province in respect thereof, shall be a debt due from the Commission to the Province and shall be repayable under the terms of *The Power Commission Act* in the same manner and under the same conditions, both as to the principal indebtedness and as to interest, as other indebtedness of the Commission to the Province of Ontario.

Rev. Stat., c. 57.

Power to hold and operate or sell to municipalities.

5.—(1) The Commission may use and enjoy or exercise any of the said properties and may carry on any undertaking or business acquired under section 2, or may sell or dispose of any of them to a municipal corporation or to any company or individual as the Commission may deem most advantageous and the Commission is declared to have been so empowered as from 1st day of November, 1928.

Taking municipal debentures in payment.

(2) Where any sale has heretofore been, or is hereafter, made under the provisions of subsection 1 of this section to a municipal corporation, the Commission has been and is empowered to accept debentures of such corporation as payment in whole or in part therefor, and the Commission may hold and collect such debentures, or may invest the reserve funds of the Commission therein, or may sell or dispose of the same upon such terms as the Commission may see fit.

Proceeds of sale,—application of.

(3) Any sums realized by the Commission on the sale of any property made under subsection 1 or the sale of any debentures made under subsection 2, and any surplus funds in the hands of the Commission as at the 1st day of November, 1928, may be paid over by the Commission to the Treasurer of Ontario in reduction of the Commission's indebtedness mentioned in section 4.

Contracts for supply of power from Central System subject to Rev. Stat., c. 57.

6.—(1) Every contract heretofore entered into by the Commission with each of the municipal corporations mentioned in schedule "A" to this Act, for a supply of electrical power or energy to such corporation or to customers therein, shall as and from the 1st day of November, 1928, notwithstanding anything contained in any such contract, be deemed to have been and shall be subject to the provisions of *The Power Commission Act* and more particularly to section 56 thereof.

Application of Rev. Stat., c. 57 as to advances by Province.

(2) All advances on capital account made by the Province of Ontario to the Commission in respect of the properties transferred to and vested in the Commission under the provisions of this Act from and after the said 1st day of November, 1928, and all expenditures made by the Commission thereout are declared to have been made under and in conformity with the provisions of *The Power Commission Act*.

Postponement of sinking fund charges.

7. The Lieutenant-Governor in Council may authorize the Commission to postpone the collection or setting apart of any sums on sinking fund account to provide for the cost of any of the properties acquired by the Commission under this Act, for such period not exceeding ten years as may be deemed advisable.

Powers under order-in-council of May 5th, 1916, preserved.

8. In addition to the rights, powers and privileges under *The Power Commission Act*, the Commission shall continue to have all the rights, powers and privileges in respect of the properties herein transferred which were granted to and vested in the Commission under the provisions of the said Order of the Lieutenant-Governor in Council, dated the 5th day of May, 1916, herein referred to.

Registration of Act.

9. A copy of this Act shall be registered in the general register of any Registry or Land Titles Office in which is registered or recorded the title to any land affected by the terms of this Act, and every Registrar of Deeds or Master of Titles, as the case may be, shall, upon the request of the Commission, enter in the abstract index of any parcel or tract of land, the title to which is in any way affected by this Act, a note, entry or memorandum showing that the title thereof has been changed or affected by this Act and referring to the date and registration number in the general index where this Act has been recorded or registered as aforesaid.

Commencement of Act.

10. This Act shall come into force on the day upon which it receives the Royal Assent.

SCHEDULE "A."

CITIES

Belleville
Oshawa
Peterborough

TOWNS

Lindsay
Port Hope
Napanee
Whitby
Picton

VILLAGES

Bloomfield
Lakefield
Norwood
Wellington
Brighton
Madoc
Stirling
Havelock
Marmora
Warkworth

TOWNSHIPS

Ameliasburg
Alnwick
Asphodel
Belmont and Methuen
Brighton
Camden, East
Caven
Clarke
Darlington
Douro
Ernestown
Fredericksburg, North
Hamilton
Haldimand
Hope
Hallowell
Hillier
Kingston
Loughboro
Manvers
Murray
Monaghan, North
Otonabee
Portland
Pittsburg
Pickering
Percy
Rawdon
Richmond
Sidney
Seymour
Smith
Thurlow
Tyendenaga
Whitby
Whitby, East

CHAPTER 14

An Act to provide for Granting Aid towards the Installation of Electrical Works in Rural Power Districts.

Assented to 3rd April, 1930.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

Short title.

1. This Act may be cited as *The Rural Power District Loans Act, 1930.*

Interpretation.

2. In this Act,—

"Commission."

(*a*) "Commission" shall mean The Hydro-Electric Power Commission of Ontario.

"Regulations."

(*b*) "Regulations" shall mean regulations made under the authority of this Act.

Fund of $2,000,000 set apart to aid installation in rural power districts.

3.—(1) The Lieutenant-Governor in Council may set apart out of the Consolidated Revenue Fund a sum not exceeding $2,000,000 for the purpose of providing advances towards the installation of electrical services in rural power districts.

Payments out of fund to Commission.

(2) The Lieutenant-Governor in Council may from time to time direct that such payments be made to the Commission out of the moneys so set apart as the Commission may report to be necessary in order to enable advances to be made under this Act.

What installation may include.

(3) Subject to the regulations the installation in respect of which aid may be granted under this Act shall include,—

(*a*) wiring from the transmission or distribution lines of the Commission into and throughout dwellings, barns, outhouses and any other works which may from time to time be specified in regulations made under the authority of this Act;

(*b*) such transformers, motors and other appliances as may be necessary or expedient for any industrial, agricultural or domestic purposes or which may be specified in the regulations.

Application for advance.

4.—(1) A person assessed as owner and being the actual owner of lands and premises in a rural power district desiring to procure an advance under this Act may make application, in the form prescribed by the regulations, to the Commission.

Proofs to accompany application.

(2) The application shall not be acted upon unless it is accompanied by the declaration of the applicant stating that he is the actual owner of the lands and premises mentioned in the application and that the same is free from encumbrance, or if the lands and premises, or any part thereof, are mortgaged or otherwise encumbered, stating the name and address of the mortgagee or encumbrancer, and where it has been assigned, the name of the assignee of the mortgage or encumbrance, with his address.

(3) Where it appears that there is a mortgage or encumbrance upon the lands or premises or any part thereof the application shall not be disposed of until two weeks after the mortgagee, encumbrancer or assignee has been notified of the application by registered letter sent to him by the secretary of the Commission to his last-known address. Notice to encumbrancers.

5. An advance under this Act shall not exceed in amount the sum of $1,000 in the case of any one owner, and every such advance shall be repayable with interest within twenty years at the furthest. Limit of amount of advance.

6. Every installation in respect of which an advance is made under this Act shall be made in such manner and according to such specifications as the Commission may prescribe and the work of installation shall be subject to the approval of the Commission and no advance shall be made under this Act except upon the recommendation of the Commission. Control as to installation and specifications.

7.—(1) Every advance made under this Act shall be a debt due from the owner of the lands and premises upon which the installation is made to the Commission and shall be repayable to the Commission at the time and in such manner as may be prescribed by the regulations, and the amounts so received by the Commission shall be transmitted to the Treasurer of Ontario. Repayment of advance.

(2) Where default is made in the repayment of any advance under this Act, or in any instalment thereof, or in the payment of interest thereon, the Commission may give notice in writing of such default to the clerk of the municipality in which the lands and premises are situate, and the amount in default shall thereupon be inserted in the collectors' roll as a tax in the same manner as in the case of municipal taxes, and when collected shall be paid over by the treasurer of the municipality to the Commission. Collection as taxes in case of default.

8.—(1) The Commission shall cause a notice of the advance, in the form prescribed by the regulations, to be registered in the proper registry or land titles office and such registration shall be notice to subsequent purchasers or mortgagees or other encumbrancers that the advance made under this Act is a lien or charge upon the lands and premises owned by the applicant. Registration of notice of lien.

(2) Where notice has been registered under subsection 1 and the advance has been subsequently repaid, a certificate of repayment in the form prescribed by the regulations, may be delivered to the owner of the lands and premises and may be registered by him, and such registration shall have the effect of discharging the lien or charge. Registration of certificate of repayment.

(3) The fee for registering a notice or certificate of repayment under this section shall be fifty cents. Fee.

9.—(1) The property in any works installed in respect of which an advance is made under this Act shall, while such advance remains unpaid, be in the Commission, and in addition to any other remedy, in case of default in repayment of the advance, or of any instalment thereof, or in the payment of interest thereon, the Commission may by its officers, servants and agents enter upon the premises and take possession of and remove transformers, motors or other appliances or fixtures forming part of such installation. Property in works to be in Commission until advance repaid.

Priority over lien note, etc.

(2) A chattel mortgage, lien note or other instrument registered or filed, or any judgment or other legal process shall not have priority over the lien created by an advance from the Commission under this Act.

Regulations.

10. Subject to the provisions of this Act the Lieutenant-Governor in Council may make regulations prescribing the terms and conditions upon which advances may be made under this Act and generally for the better carrying out of the provisions of this Act.

Commencement of Act.

11. This Act shall come into force on the day upon which it receives the Royal Assent.

CHAPTER 15

An Act respecting Service Charges in Rural Power Districts.

Assented to 3rd April, 1930.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

Short title.

1. This Act may be cited as *The Rural Power District Service Charge Act, 1930.*

Fixing maximum service charge.

2. Notwithstanding anything contained in any statute or municipal by-law or contract the Lieutenant-Governor in Council, upon the recommendation of The Hydro-Electric Power Commission of Ontario, may from time to time fix a maximum service charge for any class of service rendered by the said Commission in a rural power district.

Where deficit arises under maximum service charge.

3.—(1) Where such maximum service charge in the case of any rural power district is not sufficient to meet the necessary cost of the service as specified by the Commission, the deficit shall be chargeable to and payable out of the Consolidated Revenue Fund.

Recouping Province out of subsequent surplus.

(2) Payments made out of the Consolidated Revenue Fund under subsection 1 on account of any rural power district shall be charged to that rural power district in a special account to be known as the "Rural Power Service Suspense Account" in the books of the Treasurer of Ontario and any surplus thereafter arising from any maximum service charge in that rural power district shall be paid over to the Treasurer of Ontario and placed to the credit of the rural power district in such suspense account until the deficit is extinguished.

Maximum service charge to remain in force until deficit paid.

(3) Where a deficit arises in any rural power district owing to the application of the maximum service charge under this section, the maximum service charge as fixed from time to time by the Lieutenant-Governor in Council shall remain in force and be charged in that rural power district until the deficit is extinguished.

Commencement of Act.

4. This Act shall come into force on the day upon which it receives the Royal Assent and shall have effect as from the 1st day of January, 1930.

CHAPTER 16

The Power Commission and Companies Transfer Act, 1930.

Assented to 3rd April, 1930.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

Short title.

1. This Act may be cited as *The Power Commission and Companies Transfer Act, 1930.*

Agreement and Indenture between M. J. O'Brien Limited, and Commission confirmed.

2. The agreement dated the 31st day of May, 1929, and the indenture dated the 29th day of June, 1929, between M. J. O'Brien, Limited, and The Hydro-Electric Power Commission of Ontario, are hereby confirmed and declared to be legal, valid and binding upon the parties thereto.

Property conveyed by M. J. O'Brien Limited, to Commission vested in Commission.

3. All and every part of the properties, assets, contracts, easements, leases, rights, privileges, licenses, franchises and undertakings agreed to be sold to the said Commission by the said agreement dated 31st day of May, 1929, or conveyed or purported to be conveyed to the said Commission by the said indenture dated the 29th day of June, 1929, shall be and shall be deemed to have been from the said 29th day of June, 1929, vested in and the property of the said Commission, free from all liens, charges and encumbrances save as provided in the said indenture dated the 29th day of June, 1929.

Commission authorized to contract with Wahnapitae Company for transfer of assets.

4. The Commission is authorized and empowered to make with Wahnapitae Power Company, Limited, a contract for the sale and transfer to the Commission of all the properties, rights, assets, franchises and undertakings of the said Wahnapitae Company and of its subsidiary companies—Upper Wahnapitae River Improvement Company, Limited, and The Wahnapitae Boom and Timber Slide Company, Limited, and every such sale and transfer shall be legal, valid and binding upon the parties thereto and upon *cestuis que trustent* under the indenture of mortgage dated the 1st day of November, 1924, given by The Wahnapitae Power Company, Limited, to Montreal Trust Company, to secure an issue of bonds of the said Wahnapitae Company, and shall not constitute a breach of any covenant contained in such indenture of mortgage, nor cancel, annul or affect in any manner any contract entered into, or any franchise or right held by the said Wahnapitae Company prior to such sale and transfer, but such sale and transfer shall be subject to the said indenture of mortgage and to the bonds secured thereby, and to all rights by such indenture of mortgage and bonds reserved.

Effect of transfer.

5. Upon the execution and delivery of said agreement and transfer all the properties, rights, assets and franchises of the Wahnapitae Power Company, Limited, Upper Wahnapitae River Improvement Company, Limited, and The Wahnapitae Boom and Timber Slide Company, Limited, shall be vested in and be the property of the Commission, subject to the said indenture of mortgage and to the bonds secured thereby, and to all rights by such indenture of mortgage and bonds reserved but otherwise free from all liens, charges and encumbrances, save as in the said contract for sale and transfer.

Commission shall have same power to operate.

Rev. Stat., c. 57.

6. In addition to the powers, rights and privileges under *The Power Commission Act*, the Commission as from the respective date of transfer shall have and hold and may exercise, enforce and enjoy all the rights, powers and privileges in respect to the properties, assets, contracts, easements, leases, rights, privileges, licenses, franchises and undertakings transferred to and vested in the Commission and referred to in sections 3, 4 and 5 which the company owning or holding the said properties, assets, contracts, easements, leases, rights, privileges, licenses, franchises and undertakings had, held, exercised, enforced or enjoyed before such transfer to the said Commission.

Commencement of Act.

7. This Act shall come into force on the day upon which it receives the Royal Assent.

CHAPTER 17

An Act respecting The Sandwich, Windsor and Amherstburg Railway.

Assented to 3rd April, 1930.

Preamble.

WHEREAS pursuant to agreement dated 14th January, 1920, made between Detroit United Railway, of the first part, The Hydro-Electric Power Commission of Ontario, of the second part; Sandwich, Windsor and Amherstburg Railway, of the third part, and The Windsor and Tecumseh Electric Railway Company, of the fourth part, which agreement by virtue of *The Hydro-Electric Railway Act, 1920*, is legal, valid and binding upon the parties thereto, The Hydro-Electric Power Commission of Ontario has acquired all the assets, undertakings and property of every kind and nature of the said Sandwich, Windsor and Amherstburg Railway and The Windsor and Tecumseh Electric Railway Company; and whereas pursuant to and upon the terms and conditions more particularly set forth in an agreement dated 1st January, 1920, and amendments thereof, made between The Hydro-Electric Power Commission of Ontario and the municipal corporations of the township of Sandwich East, township of Sandwich West, city of East Windsor (formerly the town of Ford City), town of Walkerville, town of Sandwich, town of Ojibway, town of Amherstburg and city of Windsor, which agreement by virtue of *The Hydro-Electric Railway Act, 1920*, is legal, valid and binding upon the parties thereto, the said Commission has constructed and equipped and is operating an electric railway which, as more particularly provided in said agreement, is vested in said Commission, on behalf of the said municipal corporations and certain other municipal corporations, namely, the town of Tecumseh and the town of Riverside, comprising territory formerly included in the township of Sandwich East, and the town of LaSalle, comprising territory formerly included in the township of Sandwich West, which additional municipal corporations have subsequently become parties to the said agreement; and whereas the property and assets comprising the said electric railway being operated by The Hydro-Electric Power Commission of Ontario as aforesaid consist of all the assets, undertaking and property of the said Sandwich, Windsor and Amherstburg Railway and The Windsor and Tecumseh Electric Railway Company acquired by The Hydro-Electric Power Commission of Ontario under said agreement dated 14th January, 1920, together with the improvements, additions and extensions thereof and thereto made by The Hydro-Electric Power Commission of Ontario pursuant to said agreement dated 1st January, 1920, and amendments thereof; and whereas pursuant to said agreement dated 1st January, 1920, and amendments thereof The Hydro-Electric Power Commission of Ontario has from time to time issued its bonds to an aggregate principal amount of five million eight hundred and sixteen thousand two hundred and five dollars ($5,816,205) in the following respective amounts, bearing date, carrying interest, and maturing on the dates hereinafter mentioned, namely:

Principal amount of Bonds issued	Interest Rate	Date	Date Maturity
$2,100,000.00	4½%	1st April, 1920	1st April, 1960
900,000.00	6%	1st July, 1921	1st July, 1961
966,205.00	5%	1st Sept. 1923	1st Sept. 1945
750,000.00	5%	1st July, 1925	1st July, 1945
100,000.00	5%	1st Sept., 1925	1st Sept., 1945
1,000,000.00	5%	15th July, 1926	15th July, 1946
$5,816,205.00			

and whereas the said bonds issued by the said Commission as aforesaid to said aggregate principal amount of five million eight hundred and sixteen thousand two hundred and five dollars ($5,816,205) have been guaranteed as to the payment of both principal and interest by the Province of Ontario; and whereas the municipal corporations, parties to said agreement dated 1st January, 1920, and amendments thereof, pursuant to requests by the said Commission from time to time in respect of said bonds issued by said Commission have, in accordance with said agreement, issued and deposited with said Commission debentures of said corporations to the aggregate principal amount of five million eight hundred and sixteen thousand two hundred and five dollars ($5,816,205), which debentures under said agreement are held by said Commission as collateral security for the payment of said bonds of the Commission to be disposed of in trust for the holders of said bonds;

Therefore, His Majesty, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

Short title.

1. This Act may be cited as *The Sandwich, Windsor and Amherstburg Railway Act, 1930.*

Interpretation.

2. In this Act,—

"Corporations."

(*a*) "Corporations" shall mean the municipal corporations of the township of Sandwich East, township of Sandwich West, town of Walkerville, town of Sandwich, town of Ojibway, town of Amherstburg, town of Tecumseh, town of Riverside, town of La Salle, city of East Windsor (formerly the town of Ford City), and city of Windsor, and any additional municipal corporations which may from time to time become parties to the agreement between the corporations and the company referred to in section 7 of this Act; and "Corporation" shall mean one of the "Corporations";

"Railway."

(*b*) "Railway" or "Sandwich, Windsor and Amherstburg Railway" shall mean all the assets, undertakings and property of every kind and nature formerly belonging to the Sandwich, Windsor and Amherstburg Railway and The Windsor and Tecumseh Electric Railway Company, and acquired by The Hydro-Electric Power Commission of Ontario pursuant to said agreement dated 14th January, 1920, and now being operated by The Hydro-Electric Power Commission of Ontario on behalf of said corporations, and every improvement, addition and extension thereof and thereto heretofore or hereafter made;

"Commission."

(*c*) "Commission" shall mean The Hydro-Electric Power Commission of Ontario;

"Bonds of the Commission."

(*d*) "Bonds of the Commission" shall mean the bonds heretofore issued by the Commission as aforesaid in respect of the railway and which may be from time to time outstanding;

"Company."

(*e*) "Company" shall mean the Sandwich, Windsor and Amherstburg Railway Company created a body corporate under the provisions of this Act.

Incorporation and Constitution of Company.

3.—(*a*) There is hereby created and constituted a body corporate and politic under the name of the "Sandwich, Windsor and Amherstburg Railway Company," consisting of as many members as shall be appointed by the corporations. Each of the corporations may by by-law appoint one member who, subject to his removal by the corporation which appointed him, shall hold office for three years and until his successor is appointed. The member appointed by any corporation may at any time for any cause be removed from office by such corporation by by-law passed with the affirmative vote of two-thirds of all the members of the council of such corporation at a meeting specially called for considering such by-law. When and so often as a member of the company shall die, resign, be removed from office, or become unable to act, the council of the corporation which appointed such member shall by by-law forthwith appoint his successor. Every member of the company shall be a resident of the municipality represented by him and in case any member shall cease to reside in such municipality he shall be unable to act as a member of the company. Any member of the council of any of the corporations shall be eligible for appointment as a member of the company. A majority of the members shall form a quorum for the transaction of business. The first meeting of the company may be called by the member appointed by the city of Windsor by written notice mailed to each of the other members five days before the date fixed for such meeting, and at such first meeting the company may appoint one of its members as chairman and another as vice-chairman.

Expenses of administration.

(*b*) All expenses of administration of the company and all gratuities, salaries and other remuneration of the members and officers of the company may to such amount as shall be approved by the commission, be paid by the commission as part of the working expenditure of the railway.

By-laws.

4. The company may from time to time enact, make, alter, repeal amend, vary and re-enact by-laws for the carrying on, management and regulation of the undertaking of the company, and for governing the proceedings of the company, the conduct of its members, the calling of meetings of the company, and generally such by-laws as the company may consider necessary or expedient in connection with the business and affairs of the company, and the company may from time to time appoint such officers and employees as the company may deem necessary for the proper conduct of the business of the company, and may prescribe their duties and fix their remuneration.

Authentication of by-laws.

5. Every by-law of the company shall be under the seal of the company and shall be signed by the chairman or by the person presiding at the meeting at which the by-law has been passed and by the secretary or assistant secretary of the company.

Conveyance of railway to Company.

6. With the approval of the Lieutenant-Governor in Council and with the approval of a majority of the corporations, such last-mentioned approval to be evidenced by by-law, the company may acquire and the Commission on behalf of the corporations may grant and convey to the company the railway, subject, however, to the liabilities incurred by the Commission in connection with the acquisition, construction, equipment and operation of the railway and to the existing mortgage or charge in favour of the holders of the bonds of the Commission, and the payment of said liabilities and of the principal and interest of said bonds shall thenceforth be an obligation of the company and the company shall indemnify and save harmless the Commission against the same; provided always that all bonds of the Commission and all bonds issued by the company pursuant to this Act shall be equally charged upon and secured by the railway and every extension thereof and all lands and interests in lands, buildings, fixtures, improvements, stations, terminals, rolling stock, equipment, income, tolls, revenue, sources of money, rights, powers, privileges, franchises and all properties and assets of or belonging to the company as a first mortgage or charge thereon. Upon the execution by The Hydro-Electric Power Commission of Ontario on behalf of the corporations and upon delivery to the company, of a grant and conveyance of the railway made or purporting to be made pursuant to this section, and upon the deposit of such grant and conveyance as hereinafter mentioned the railway shall be vested in the company free from all liens, charges and encumbrances whatsoever save and except the mortgage and charge aforesaid, and such grant and conveyance may be made in general terms and it shall not be necessary therein to particularly describe the property thereby granted and conveyed or to conform to or comply with the provisions of any law or statue relating to the transfer of real or personal property. It shall not be necessary to register or file such grant and conveyance under the provisions of any law respecting the registration, filing or recording of instruments affecting real or personal property but the same shall be deposited in the office of the Ontario Railway and Municipal Board, and thereupon the said grant and conveyance shall be legal, valid and binding upon the corporations and the Commission. A copy of such grant and conveyance may, however, be registered in the general register of the county of Essex and the registrar of deeds for the said county shall upon request enter in the abstract index of each parcel or tract of land the title to which is in any way affected by this Act, a note entry or memorandum showing that the title thereto has been changed or affected by this Act and referring to the date and registration number in the general register where the said grant and conveyance has been recorded or registered as aforesaid.

Effect of deposit of grant and conveyance with Railway Board.

7. Upon the deposit of said grant and conveyance in the office of the Ontario Railway and Municipal Board as aforesaid and upon the execution by the company of an agreement with the Commission in form set forth in schedule "A" to this Act with such variations, additions, alterations or amendments as may be approved by the Lieutenant-Governor in Council either before or after the execution thereof, the Commission shall cease to have any further obligations to the corporations under said agreement between the Commission and the corporations dated 1st January, 1920, and amendments thereof but the said agreement, subject as hereinafter mentioned, shall thereafter be effective as a valid and binding agreement between the corporations and the company as fully and effectually as though the company had been named as a party to and throughout said agreement and amendments in the place and stead of the Commission, provided, however, that for such purpose the said agreement shall be deemed to be amended as follows:

Amendments to Agreement of Jan. 1st, 1920.

(1) By striking out the words "The Hydro-Electric Power Commission of Ontario" and the "Commission" wherever the same appear throughout said agreement and any amendment thereto and substituting therefor the words "Sandwich, Windsor and Amherstburg Railway Company" and "Company" respectively.

(2) By substituting for the names of the municipal corporations who are parties of the second part to said agreement the names of the municipal corporations referred to in section 2 (*a*) of this Act.

(3) By striking out the recitals to the said agreement and substituting therefor the following:

> "Whereas The Hydro-Electric Power Commission of Ontario on behalf of the corporations has constructed and equipped and is operating a system of electric railways (known as the Sandwich, Windsor and Amherstburg Railway and hereinafter referred to as the "Railway") over the routes laid down in schedule "A" hereto; and whereas all the assets and undertakings of said railway have been acquired from said Commission by the company subject to the payment by the company of all liabilities incurred by the Commission in connection with such construction, equipment and operation and to the payment by the company of the principal and interest of all bonds heretofore issued by said Commission in respect of said railway."

(4) By striking out subsections (*a*) and (*b*) of section 1 and substituting therefor the following:

> "to equip, operate and maintain the railway over the routes laid down in schedule "A" and through the districts in which the corporations are situate."

(5) By striking out subsections (*c*), (*g*), (*i*), and (*n*) of said section 1.

(6) By striking out subsections (*k*) and (*l*) of said section 1 and substituting therefor the following:—

> "To apply the revenue derived from the operation of the railway and any other revenue derived from the undertaking of the company to the payment of operating expenses and working expenditure, the payment of interest and sinking fund in respect of the bonds heretofore issued by The Hydro-Electric Power Commission of Ontario for the railway and in respect of the bonds of the company to be issued for the railway, and the payment of all monies owing or payable to the trustee under the trust indentures securing said bonds of said Commission and of the company, in setting aside such sums as the company or The Hydro-Electric Power Commission of Ontario as agent for the company may deem desirable for reserves for working expenditure, obsolescence depreciation and contingencies and for the renewal of any works belonging in whole or in part to the undertaking, and to reimburse the company for and indemnify the company against any expenditure, liability or obligation which may be undertaken or incurred by the company under this agreement or when purporting to act under this agreement or by The Hydro-Electric Power Commission of Ontario when operating the railway as agent of the company under an agreement between the company and said Commission; and it is hereby agreed that the company or said Commission as agent for the company may apply said revenue for any or all of the purposes aforesaid in such amounts, with such preferences and priorities or without any preference or priority as the company or said Commission may in its sole discretion determine."

(7) By striking out subsections (*j*) and (*m*) of said section 1 and substituting therefor the following:

> "When all bonds issued by The Hydro-Electric Power Commission of Ontario and the company in respect of the said railway and all other liabilities and indebtedness of the company have been paid in full, to sell or otherwise dispose of the railway in such manner and at such time and for such price as may be approved by a majority of the corporations and to divide the proceeds of the sale of such assets among the corporations in the proportion agreed upon between them or failing such agreement in the proportion fixed by The Hydro-Electric Power Commission of Ontario whose decision shall be final."

(8) By striking out the first three lines of section 2 and subsections (*a*) and (*b*) of section 2 and substituting the following:

> "In consideration of the premises and of the agreements herein set forth the corporations and each of them agree with each other and with the Commission as follows:
>
> (a) To issue and deposit their debentures with the company as provided by this agreement and to pay to the trustee for the holders of the bonds to be issued by the company and of the bonds heretofore issued by The Hydro-Electric Power Commission of Ontario in respect of the railway all monies which may be demanded by said trustee in accordance with the provisions of this agreement and to become directly jointly and severally liable for the payment of the principal, premium if any, and interest of and on all bonds issued by the company, and the corporations do hereby jointly and severally agree to pay said principal, premium if any, and interest as the same respectively fall due."

(9) By adding to subsection (*c*) of said section 2 the following:

> "To take all means within their power to ensure to the company the exclusive right of furnishing transportation within the limits of the municipalities of the corporations and to pass and enforce such by-laws as they may legally pass to prevent the operation of busses, jitneys or vehicles or any other system of transportation which would compete with the transportation services furnished by the company."

(10) By striking out paragraph 3 of said agreement and substituting therefor the following:

> "3.—(*a*) The company from time to time, subject to the provisions of this agreement, may issue bonds for such amount as the company may deem necessary to cover the capital cost of extensions, improvements and additional properties, works and equipment of any kind or any of them for use on or in connection with the railway; and the company from time to time upon such terms as it deems proper may sell, hypothecate, pledge or otherwise dispose of any bonds of the company issued under this agreement, but only after deposit with the company of the debentures of the corporations as provided in this agreement;

(*b*) Subject as hereinafter in this sub-clause (*b*) provided the company shall obtain the consent of a majority of the corporations (including always the corporation of the city of Windsor) before the issue of any bonds, such consent in each case to be in the form of a by-law passed by the council of the corporation for which the assent of the electors shall not be necessary, provided that where such bonds are being issued to cover capital cost within the limits of one municipality only the consent of the corporation of that municipality alone shall be necessary; and provided further that it shall not be necessary to obtain the consent of any of the corporations in respect to the issue of bonds from time to time up to an amount not exceeding ten per centum (10%) of the aggregate amount of the bonds of The Hydro-Electric Power Commission of Ontario heretofore issued in respect of the railway and of the bonds of the company issued with the consent of the corporations as above mentioned and outstanding from time to time;

(*c*) The bonds issued by the company from time to time under this agreement shall respectively bear such date, carry such rate of interest, be payable at such place or places and in such monies and upon such terms and conditions, and mature within such period not exceeding fifty (50) years from the date thereof as the company may determine; and all bonds of the company hereafter issued under this agreement and all bonds of The Hydro-Electric Power Commission of Ontario heretofore issued in respect of the railway shall be equally charged upon and secured by the railway and every extension thereof and all lands and interests in lands, buildings, fixtures, improvements, stations, terminals, rolling stock, equipment, income, tolls, revenue, sources of money, rights, powers, privileges, franchises, and all properties and assets of or belonging to the company as a first mortgage or charge thereon;

(*d*) In order to provide for the payment of any issue of bonds of the company, the company may in each year during the currency of such bonds commencing in such year as the company may determine, out of such monies of the company as may be available therefor, set aside and pay or cause to be set aside and paid annually as a sinking fund such sum as the company may deem desirable, and such sinking fund may be applied by or on behalf of the company from time to time in the purchase or redemption of bonds issued by the company at such time or times and in such manner and for such price or prices as the company may deem desirable; and the company shall have power at such times as it may deem expedient to issue further bonds to such amount as will realize the net sum required after the application of the accumulated sinking fund on hand available therefor to repay its outstanding bonds as the same respectively mature;

(*e*) In order to provide for the payment of the bonds heretofore issued by The Hydro-Electric Power Commission of Ontario in respect of the railway the company may in each year during the currency of such bonds commencing in such year as the company may determine, out of such monies of the company as may be available therefor, set aside and pay or cause to be set aside and paid such sum for sinking fund as the company may determine and such sinking fund payments may be held by a trustee for the said outstanding bonds of said Commission and shall be applied towards the repayment or retirement of the said bonds respectively or any renewal or refunding thereof at maturity and in the meantime may be invested in securities authorized for investment by trustees in the Province of Ontario or in call loans guaranteed by said trustee and the company shall have power at such times as it may deem expedient to issue further bonds to such amount as will realize the net sum required after the application of the accumulated sinking fund on hand available therefor to repay the said bonds as the same respectively mature.

(*f*) Upon the issue of further bonds by the company for the purpose of repaying, renewing or refunding any outstanding bonds of said Commission or of the company as provided in the foregoing subsections (*d*) and (*e*) of this section 3 all of the provisions of this agreement relating to the issue and deposit with the company and the disposal by the company of debentures of the corporations will apply as hereinafter more particularly provided.

(*g*) From time to time whenever the company shall authorize an issue of bonds as hereinbefore provided the corporations upon requisition in writing from the company approved by The Hydro-Electric Power Commission of Ontario shall issue and deposit with the company debentures to the respective amounts specified in the said requisition; the said debentures shall be for an aggregate principal amount of not less than one hundred and ten per centum (110%) of the principal amount of the bonds of the company to be issued as aforesaid; shall bear such date, shall carry interest payable half yearly at such rate, shall mature on such date and shall be payable as to both principal and interest in lawful money of Canada at Toronto, Ontario, and in such other currency or currencies and at such other place or places, if any, as the company in each case may specify in such requisition.

(*h*) Debentures issued by any municipal corporation or corporations pursuant to a request by the company, in respect of any extension, improvement, additional works or equipment required for the railway for which bonds of the company are issued or to be issued, may be held or disposed of by the company in trust exclusively for the holders of such bonds of the company and as security for the payment of such bonds of the company in respect of which such debentures have been issued and deposited in such manner and at such time or times and upon such terms and conditions as the company in its sole discretion may determine and without limiting the generality of the foregoing the company as security for the repayment of the principal of said bonds, and the interest and premium, if any, thereon may execute, deliver and enter into any trust indenture or other document with a trust company or corporation as trustee for the holders of said bonds of the company containing such powers, terms and conditions and such provisions as to sinking fund, redemption or otherwise, and such protection to the trustee in the exercise of its duties thereunder and such security to said trustee for the payment of its fees, compensation and disbursements by way of lien on all monies, debentures and other property in its hands or otherwise, and such mortgage, charge and pledge (subject always to the rights of the holders of the outstanding bonds of the Commission as hereinbefore in sub-paragraph (*c*) of this paragraph 3 mentioned) as the company in its sole discretion shall deem to be in the best interests of the company and of the holders of said bonds, and may by said trust indenture or other document transfer, pledge, hypothecate, charge and mortgage the said debentures or any of them to said trustee for the exclusive benefit and security of the holders of the bonds of the company in respect of which said debentures have been issued and deposited with the company and may give said trustee such power to sell, dispose of or realize upon such debentures and the interest coupons attached thereto and such power to collect all monies payable by the corporations under this agreement, as the company in its sole discretion may deem advisable, and the company may by such trust indenture or other document, subject as aforesaid, mortgage and charge the railway and all the lands and interests in lands, buildings, fixtures, improvements, terminals, rolling stock, equipment, income, tolls, revenues, sources of monies, rights, powers, privileges, franchises and all other properties and assets present and future belonging to or connected with said railway. Said trust indenture when executed by the company shall be legal, valid and binding upon the company and upon each of the corporations.

(*i*) The debentures of the corporations to the aggregate principal amount of five million eight hundred and sixteen thousand two hundred and five dollars ($5,816,205) which have heretofore been issued by the corporations and deposited with The Hydro-Electric Power Commission of Ontario from time to time pursuant to requests by said Commission in respect of bonds issued by said Commission for the railway, the payment of the principal and interest of which bonds has been assumed by the company and is guaranteed by the Province of Ontario, and which debentures are held by said Commission as collateral security for the payment of said bonds to be disposed of in trust for the holders of said bonds, shall be delivered to the company by said Commission and shall be held or disposed of by the company in such manner and at such time or times and upon such terms or conditions as the company, subject to the approval of the Commission and the Lieutenant-Governor in Council, may determine, and without limiting the generality of the foregoing the company may for such purpose execute, deliver and enter into a trust indenture with a corporate trustee (who shall be the trustee for the holders of the bonds of the company) and may in such trust indenture as collateral security for the payment of the principal and interest of the said bonds of the Commission transfer, pledge, hypothecate, charge and mortgage the said debentures to said trustee for the benefit and security of the holders of the said bonds of the Commission, and may give said trustee such power to sell, dispose of or realize upon such debentures and the interest coupons attached thereto and to dispose of the proceeds of such sale, disposition or realization as the company in its discretion may determine and such power to collect all monies payable by the corporations under this agreement, and such trust indenture may contain such powers, terms, conditions and provisions, including provisions for payment of interest and sinking fund, and such protection to the trustee in the exercise of its duties thereunder and such security to said trustee for the payment of its fees, compensation and disbursements by way of lien on all monies, debentures and other property in its hands or otherwise, as the company may determine; provided that the disposition of or dealing with the said debentures as provided by said trust indenture shall not become effective until approved by the said Commission and the Lieutenant-Governor in Council, and such disposition or dealing with said debentures and such trust indenture, shall, when approved by the said Commission and the Lieutenant-Governor in Council, be valid and binding upon the company, and upon each of the corporations. Any such trust indenture may with the like approvals be cancelled, altered or amended.

(*j*) The by-laws of the municipal corporations authorizing the issue of the debentures to be deposited with the company as aforesaid shall in each case provide for the raising in each year during the currency of the debentures of the annual interest thereon and of a specific sum as a sinking fund which with the estimated interest thereon at a rate not exceeding four per centum (4%) per annum capitalized yearly will be sufficient to pay the principal of the said debentures at maturity; provided that the respective amounts for interest and sinking fund to be raised by such municipal corporations in any year by special rates under any such by-law may be reduced or increased as hereinafter provided but such reduction shall in no way impair the obligation or liability of such municipal corporations to pay in full the amount of the principal of such debentures and of the interest coupons attached thereto.

(*k*) At least thirty (30) days prior to the respective dates on which interest and/or sinking fund payments fall due in respect of the bonds of the Commission and/or of the company, The Hydro-Electric Power Commission of Ontario, operating the railway as the agent of the company under the agreement hereinafter referred to, shall estimate and pay to the trustee or make arrangements satisfactory to the trustee for payment to the trustee of the amount of revenue, if any, from the operation of the railway which is available to be allocated to meet interest and sinking fund in respect of each issue of bonds made by the company and in respect of each issue of bonds heretofore made by the Commission in respect of the railway, and shall certify to the said trustee the amount remaining to be paid as hereinafter mentioned by each corporation for interest and/or sinking fund, such respective amounts to be determined from time to time by the Commission in its absolute discretion having regard to the service rendered by the railway to each corporation and the comparative benefits derived by each such corporation from the railway. The said estimate and certificate of the Commission shall be final and conclusive and binding upon the company and the corporations and shall not be open to question.

In the event that the Commission in any year shall have paid to the trustee the whole of the sinking fund and/or interest payments due in such year by the company to the trustee in respect of any issue of bonds of the company or of the Commission the corporations shall not be obliged to levy for that year any monies for sinking fund or interest under their by-laws authorizing the issue of debentures pledged to such trustee in respect of such bonds, but in the event that the Commission shall pay to the trustee for sinking fund and/or interest in any year any amount less than the whole amount of sinking fund and/or interest so payable such deficit shall forthwith on the demand of the trustee be paid to the trustee by the corporations in the respective amounts aforesaid, and pending the collection of the same by special rates the corporations may temporarily borrow the same from any bank, company or person on the credit of the corporation at large, and the respective amounts so payable shall be included by the respective corporations in their estimates for the current or next succeeding year and shall be raised and levied by each of said corporations by a special rate on all the rateable property in said respective municipalities rateable therefor and the monies so paid to said trustee for sinking fund shall be added to the sinking fund of the company and be applicable to the redemption of the bonds of the company and/or the Commission in respect of which the same has been paid and the monies so paid to the trustee for interest shall be made available by the trustee for the payment of the interest on the bonds of the company and/or the Commission respectively. Any monies payable as aforesaid by the said corporations to said trustee shall be debts due and owing by the respective corporations to said trustee and may be recovered by said trustee from each such corporation in any court of competent jurisdiction, together with interest at the rate of six per centum (6%) per annum from the date of such demand as aforesaid and the production by said trustee of such demands and proof of delivery thereof to the respective corporations shall be conclusive evidence of the amount due and owing by the respective corporations to said trustee as a debt. In the event that any corporation shall fail to pay to the trustee the amount payable by it as aforesaid within fifteen (15) days after the date of such demand, the trustee may sell, realize on or otherwise dispose of a sufficient number of debentures and or interest coupons of the defaulting corporation or corporations pledged to it to realize as nearly as may be the sum so in default and the surplus, if any, arising from the sale or realization of such debentures and/or interest coupons over and above the amount required to meet such sum in default may be added to the sinking fund or retained by the trustee to meet any subsequent default of such defaulting corporation or corporations. The corporation or corporations whose debentures have been so sold shall on demand by the trustee forthwith issue and deliver to the trustee new debentures of a like amount and payable upon the same terms as the debentures so sold, and the corporations are hereby authorized and required to pass all proper by-laws authorizing the issue and delivery of such new debentures.

(*l*) In addition to the annual deficits, if any, in respect of interest and/or sinking fund payable by the corporations to said trustee as provided in sub-paragraph (*k*) of this paragraph, the Commission shall certify to the trustee in each year the aggregate sum, if any, by which the revenue derived from the operation of the railway and any other revenue derived from the undertaking of the company is insufficient to meet in that year the operating expenses, working expenditure, reserves and other liabilities and obligations (other than for interest and sinking fund) to which the said revenue may be applied by the company as hereinbefore in this agreement provided, and the Commission shall also certify to the said trustee the respective amounts of such aggregate sum to be paid by each corporation, such respective amounts to be determined by the Commission and to be payable by the corporations to the trustee in the manner provided in sub-paragraph (*k*) of this paragraph. The certificates of the Commission herein provided for shall be final and conclusive and binding upon the company and the corporations and shall not be open to question. Such respective amounts when paid by the corporations to the trustee shall be paid by the trustee to the Commission.

(*m*) The trust indenture securing the bonds of the company may provide that the trustee may in each year release from the lien of the trust indenture and cancel and return to the respective corporations, municipal debentures (with all unmatured interest coupons attached) pledged to it in respect of any issue of bonds to an aggregate principal amount not exceeding the principal amount of such bonds of the company redeemed in such year out of sinking fund monies. The respective amounts of debentures of each corporation to be released and cancelled as aforesaid shall be in the same proportion as nearly as may be as the proportion which the respective amounts of the debentures of each corporation pledged to the trustee in respect of such issue of bonds bear to the aggregate amount of municipal debentures pledged to the trustee in respect of such issue of bonds; provided that no release shall be made in respect of any fractional portion of any debenture; provided that no debentures will be returned to any municipal corporation which is in default in meeting any demand by the trustee.

(*n*) In the event that the security under a trust indenture securing bonds of the company shall have become enforceable, and the trustee thereof shall have determined or become bound to enforce the same, the trustee without the necessity of having recourse to any other security created by said trust indenture or otherwise may forthwith sell or otherwise dispose of any or all of the said debentures transferred, pledged, hypothecated, charged or mortgaged with or to it as aforesaid, in the manner and upon the conditions prescribed in said trust indenture, and the said debentures in the hands of the purchasers thereof shall be valid and binding upon the respective corporations and the ratepayers thereof and neither the validity of the by-laws authorizing the issue of such debentures nor the validity of any such debentures shall be open to question on any ground whatsoever.

(*o*) In the event that the said trustee shall enforce the security of said trust indenture as aforesaid and/or in the event the trustee shall sell or otherwise dispose of any or all of the debentures of the corporations mortgaged, hypothecated or pledged thereunder, the corporations shall in each year thereafter raise and levy the annual interest on such debentures and in lieu of the annual sinking fund levies provided for under the respective by-laws authorizing the issue of their debentures so disposed of shall raise and levy for sinking fund such amount as, with the estimated interest thereon at a rate not exceeding four per centum (4%) per annum, shall be sufficient to meet at maturity the debentures so sold or otherwise disposed of."

(11) By striking out paragraphs 4, 10, 11 and 16 of said agreement.

(12) By striking out paragraph 13 of said agreement and substituting therefor the following:

"Any dispute between the corporations arising under this agreement shall be referred for settlement to The Hydro-Electric Power Commission of Ontario and said Commission may upon application fix a time and place to hear all representations that may be made by the corporations and the Commission shall settle such dispute and such settlement shall be final. The said Commission shall have all the powers that may be conferred upon a Commissioner appointed under *The Act Respecting Enquiries Concerning Public Matters.*"

(13) By striking out section 14 of said agreement and substituting therefor the following:

> "This agreement shall continue and extend for a period of fifty (50) years from the date the same goes into effect and at the expiration thereof be subject to renewal with the consent of the corporations from time to time for like periods of fifty (50) years. At the expiration of this agreement The Hydro-Electric Power Commission of Ontario shall determine and adjust the respective rights and liabilities of the corporations as among themselves having regard to the amounts paid or indebtedness incurred by them respectively pursuant to this agreement and to such other considerations as may appear equitable to The Hydro-Electric Power Commission of Ontario and are approved by the Lieutenant-Governor in Council."

(14) By striking out section 15 and schedule "C" of said agreement and substituting therefor the following:

> "It is understood and agreed that all sums to be raised, levied and collected by the corporations pursuant to this agreement shall be raised, levied and collected by the respective municipal corporations by special rates upon all the rateable property in the respective municipalities with the exception of the municipality of the corporation of the township of Sandwich West wherein said rates shall be levied upon all the rateable property in that section only of said Township lying between the Anderdon town limit and Windsor that is bounded on the east side by the Malden Road, Huron Line, and the Tecumseh Road and on the west side by the Detroit river including property fronting on both sides of the roads forming the said easterly boundary, but excluding thereout all the property lying within the boundaries of the municipality of the town of LaSalle; provided that the council of the township of Sandwich West may at any time by by-law define an area in said township other than that above described and may submit to a vote of the electors of such defined area in the manner prescribed by *The Municipal Act* a question as to the extension of the railway into such defined area, and if a majority of the electors vote in the affirmative, the railway, subject to the provisions of this agreement may be extended into such defined area, and in such case all sums to be raised, levied and collected by the township of Sandwich West under this agreement by reason of such extension into such defined area shall be raised, levied and collected by special rates upon all the rateable property in such defined area."

(15) By repealing section 3 of *The Hydro-Electric Railway Act, 1925*, in so far as the same applies to this agreement and the railway.

(16) By adding the following paragraphs to said agreement:

(*a*) The company may enter into an agreement with The Hydro-Electric Power Commission of Ontario providing for the management, extension, improvement, completion, equipment, maintenance and operation of the railway as the agent of the company and for the performance by the Commission of any or all of the duties, or obligations to be performed by the company under this agreement other than the issue of the bonds of the company.

(*b*) This agreement may be amended by the company and the corporations with the consent of the Lieutenant-Governor in Council and the corporations shall pass all such by-laws as may be necessary to authorize, confirm and carry out every such amendment; provided that no such amendment shall in any way lessen or impair the obligations of the corporations or any of them or of the company under this agreement in respect to bonds issued by the company during the currency of this agreement.

(*c*) The company may assign the benefit of this agreement or any part thereof to the trustee for the holders of the bonds of the company and/or the said bonds of The Hydro-Electric Power Commission of Ontario.

Temporary transportation service by buses, etc.

8.—(1) Notwithstanding anything contained in this Act or in the agreement between the company and the corporations referred to in section 7 of this Act, the company, pending or in lieu of the permanent extension of the railway through any area in the municipality of any corporation, may with the approval of the Commission provide for a temporary transportation service by motor bus or busses over any route or routes within any defined area of any such municipality; and the company and the corporation of any such municipality, subject to the provisions hereinafter contained, may from time to time enter into an agreement or agreements in order to provide for such service and for the repayment to the company by such corporation of the deficits, if any, arising from time to time in connection with the provision and operation of such service.

Sectional by-laws.

(2) The council of any corporation, upon petition signed by the owners representing at least one-half of the assessed value of the property in any area of the municipality or after a question for such purpose has been submitted and has received the assent of the electors in such area entitled to vote on money by-laws in the manner provided by *The Municipal Act*, shall have power by by-law to set aside a defined area for the purpose aforesaid and to authorize the execution of such agreement with the company and to provide that all such deficits, if any, payable to the company under such agreement shall be raised, levied and collected by a special rate on all the rateable property in such defined area.

Sectional by-law as to bus service already established.

(3) The council of any corporation in any area in the municipality of which the Commission has heretofore provided a temporary transportation service by motor bus, may without such petition or the submission of such question set aside a defined area and authorize the execution of an agreement with the company for the purpose aforesaid and any deficits already existing in connection with any such service heretofore furnished by the Commission or hereafter arising in connec-

tion with such service hereafter furnished by the company, shall be paid by the corporation to the company on demand and shall be raised, levied and collected by such corporation by a special rate sufficient therefor on all the rateable property in such defined area.

Agreement for operation by Commission.

9. The company may enter into an agreement with the Commission and the Commission may enter into an agreement with the company in the form set forth in the schedule to this Act with such amendments as may from time to time be made therein by the company and the Commission, and the company and the Commission shall have full power to carry out their powers, duties and obligations under said agreement and any amendments thereof. The Commission with respect to the management and operation of the railway shall maintain separate and distinct books and accounts from the books and accounts of any other undertaking in which it is engaged, and all monies received by it in connection with such operation shall be kept in a separate bank account and shall not be merged with its funds derived from any other source.

Authority to carry out agreements.

10. The company and the corporations and each of them may exercise all the rights, powers and privileges and do all things necessary to carry out the terms of the agreement referred to in section 7 of this Act and for the purpose of said agreement the company shall have and may exercise all the powers, rights, immunities and privileges of a company incorporated by a special Act for the construction of a railway under *The Railway Act* so far as the same are applicable.

Powers of Commission when operating railway.

11. The company and the Commission and each of them may exercise all the rights, powers and privileges conferred upon them by this Act and may do all things necessary to carry out the terms of the agreement between the company and the Commission referred to in section 9 of this Act and for the purpose of operating and carrying on the railway and of exercising any of the powers conferred on the company by this Act the Commission shall have and may exercise all the rights, powers and privileges of a company owning and operating a railway under *The Railway Act of Ontario* and all the rights, powers and privileges conferred upon the company by this Act, including the power to pass by-laws and regulations for and in the name of the company which may be passed by the company under section 29 of this Act, and all such by-laws and regulations passed by the Commission for and in the name of the company shall be as effective as if passed by the company itself; provided always that the Commission shall have no power to issue bonds, debentures, promissory notes or other securities or incur any financial obligation whereby the Commission becomes in any way liable, except as the agent of and in the name of the company, and all bonds, debentures, promissory notes and other securities required to be issued for the purpose of the said railway and all such financial obligations shall be issued and incurred by and in the name of the company; and the Commission shall act solely as the agent of the company and the Commission shall not be liable in any manner for any debt, liability or obligation in respect of the railway or anything done or undertaken by the Commission in relation thereto except to the extent of monies received by the Commission as revenue from the operation of the railway or as representing other monies or other assets of the company or the corporations from time to time in its possession or control and available for such liabilities, and the company and the corporations jointly and severally shall be responsible for every such debt, liability or obligation and shall indemnify and save harmless the Commission therefrom and no action or other proceeding shall lie or be taken against the Commission in respect of any such debt, liability or obligation, but every such action may be taken against the company and the corporations or one or more of them.

Authority for issue of bonds for $500,000 for working capital.

12.—(*a*) For the purpose of supplementing the revenues of the railway in the hands of the Commission under the agreement referred to in section 9 of this Act and of providing the additional monies, if any, required by the company and/or the Commission for the payment of operating expenses and working expenditure, the payment of interest and sinking fund in respect of the bonds of the Commission and the bonds of the company, the payment of all monies owing or payable to the trustee under the trust indentures securing said bonds of the Commission and of the company, for such reserves as the Commission may deem desirable to set aside for working expenditure, obsolescence, depreciation and contingencies and for the renewal of any works belonging in whole or in part to the undertaking and to reimburse the Commission for and to indemnify the Commission against any expenditure, liability or obligation undertaken or incurred by the Commission under said agreement or when purporting to act under said agreement, the company is hereby authorized to and shall issue and deliver to the Commission debentures of the company to the principal amount of five hundred thousand dollars ($500,000) in the first instance and, from time to time, in such further principal amounts as may be demanded by the Commission; and the Commission from time to time in the name of and as agent for the company may borrow or raise such sums as the Commission may deem advisable for any of the purposes aforesaid and may deposit, pledge, hypothecate, charge, sell or otherwise deal with any of said debentures delivered to it by the company and receive the proceeds thereof and apply said proceeds for any of said purposes;

(*b*) The said debentures of the company may bear such date, carry such rate of interest, be payable at such place or places and in such monies and be upon such terms and conditions and mature within such period from the date thereof as the Commission may from time to time require;

(*c*) Notwithstanding that the said debentures may purport to be obligations of the company only the said debentures shall be direct joint and several obligations of the corporations and each of the corporations shall be jointly and severally liable for the payment thereof and the interest thereon and for every indebtedness created by or in connection with the said debentures, and the amount for which the corporations are liable hereunder shall be a debt due from such corporations and each of them to the holder of any of the said debentures and upon default in payment of such debt the same may be recovered by action at the suit of such holder in any court of competent jurisdiction;

(*d*) Subject as hereinafter in this subsection provided the Commission as the agent of and in the name of the company may declare that the said debentures are charged upon and secured by such assets of the railway in such manner and upon such terms and conditions and subject to such provisions as the Commission may deem advisable, but in relation to the said assets all said debentures shall be junior and subordinate to and rank after all bonds of the Commission and all bonds hereafter issued by the company pursuant to the agreement referred to in section 7 hereof;

(*e*) Debentures and debts which are by this section made obligations of the corporations shall not be included in ascertaining the limits of the borrowing powers of the corporations as prescribed by *The Municipal Act* and the said debentures and debts shall be obligations of the corporations, notwithstanding the limitations prescribed by *The Municipal Act.*

Rev. Stat. c. 233.

(*f*) No person, bank, firm or corporation purchasing or lending money upon the security of the said debentures or any of them shall be bound to enquire into the authority for the issue of the said debentures or to see to the application of the proceeds thereof;

(*g*) All or any of the said debentures which may be pledged, hypothecated or charged as security for advances or loans and which are re-delivered to the Commission with or without payment, satisfaction, release or discharge in whole or in part of any such advances or loans may be re-pledged, re-hypothecated or re-charged, sold or otherwise disposed of as and when the Commission may think fit;

(*h*) Nothing in this section contained shall in any way limit the obligations of the corporations under subsections (*k*) and (*l*) of section 3 of the agreement between the company and the corporations referred to in section 7 of this Act.

Disposal of property not required.

13. With the approval of The Hydro-Electric Power Commission of Ontario and subject to the terms of any trust deed securing the bonds of the Commission and the bonds of the company, the company upon such terms as it deems proper may lease, sell or otherwise dispose of, free from any lien, charge, mortgage or encumbrance, any property, real or personal, which the Company may deem unnecessary for the purpose of the railway or any section or extension thereof, and the company shall use or dispose of the proceeds thereof only for the purposes of the railway in such expenditures or for reimbursing the company for such expenditures as are approved by The Hydro-Electric Power Commission of Ontario or shall invest the same in securities in which trustees may by the laws of the Province of Ontario invest trust funds or shall apply the same for the retirement of the bonds of the company or partly in one way and partly in any other or others.

Enforcing obligations of Commission.

14. Any or all obligations of the corporations as set forth in paragraph 3 of said agreement between the corporations and the company referred to in section 7 of this Act and in any amendment or amendments of said paragraph 3 may be enforced directly against the corporations by the trustee under any trust indenture made by the company to secure the bonds of the Commission and/or the bonds of the company as fully and effectually as if said corporations were parties to said trust indentures and had convenanted and agreed with the trustee thereof to perform said obligations.

Joint and several liability of Corporations.

15. Notwithstanding anything contained in this Act or in said agreement between the company and the corporations and notwithstanding that the bonds of the company may be expressed on their face to be obligations of the company only, the obligations of the company as set forth in all bonds from time to time issued by the company and in any trust indenture or indentures securing the payment of said bonds shall, in addition, be direct joint and several obligations of the company and the corporations, and the corporations shall be directly jointly and severally liable to the holders of said bonds for the time being for the payment of the principal, premium, if any, and interest of and on all said bonds of the company as and when the same respectively fall due.

Guaranty of Province.

The bonds of the company shall be authorized investments for trustees in the Province of Ontario.

16. Nothing in this Act contained shall in any way affect or impair the obligation of the Province of Ontario as guarantor of the payment of the principal and interest of the bonds of the Commission.

Right of Corporations to contribution from others.

17. Notwithstanding the joint and several liability of the corporations under the provisions contained in sections 12 and 15 of this Act any corporation may, in respect of monies paid by such corporation in any year, recover contribution from the other corporations to such amount as shall be determined by The Hydro-Electric Power Commission of Ontario in its sole discretion. Any dispute between the corporations or any of them under this section may be settled by the Commission, whose decision shall be final.

Extension of railway.

18. The railway may from time to time be extended into any municipality adjacent to the municipalities the corporations of which are parties to said agreement between the corporations and the company, but only upon such terms and conditions as may be approved by the majority of the corporations and by The Hydro-Electric Power Commission of Ontario.

Application of 1929, c. 55.

19. The provisions of *The Hydro-Electric Railway Act, 1929*, shall apply to the company and the railway as though the company had been named throughout said statute instead of the Commission.

Execution of bonds.

20. All bonds authorized to be issued by the company shall, unless otherwise specially authorized or provided, be sealed with the seal of the company, and shall be signed by the chairman or vice-chairman of the company and countersigned by the secretary or assistant secretary of the company holding office at the time of signing. The signature of the chairman or vice-chairman may be engraved, lithographed or otherwise mechanically reproduced on the bonds, and such engraved, lithographed or otherwise mechanically reproduced signature shall be deemed for all purposes the signature of such officer and shall be binding upon the company. Notwithstanding any change in any of the persons holding said offices between the time of actual signing and the certifying and delivery of the bonds and notwithstanding the chairman or vice-chairman or secretary or assistant secretary signing may not have held office at the date of said bonds or at the date of the certifying and delivery thereof the bonds so signed shall be valid and binding upon the company. Interest coupons attached to the bonds shall have engraved, lithographed or otherwise mechanically reproduced thereon the signatures of the chairman and secretary of the company, and such signatures shall for all purposes be deemed the signatures of such officers and shall be binding upon the company notwithstanding that the persons whose signatures may have been engraved, lithographed or mechanically reproduced are not at the date of the bonds or at the date of the certifying and delivery thereof the chairman and secretary respectively of the company.

Deposit of trust indenture with Railway Board.

21. Any trust indenture made by the company to secure any bonds of the company and/or the bonds of the Commission and creating a mortgage, charge, hypothecation, pledge or encumbrance of or upon the whole or any part of the property, assets and undertaking of the company, present or future, or both, shall be deposited in the office of the Ontario Railway and Municipal Board, of which deposit notice shall forthwith be given in the *Ontario Gazette*, and no such trust indenture and no affidavit or other document attached thereto or deposited therewith need be registered or filed under the provisions of any law respecting registration, filing or recording of instruments affecting real or personal property, and no such law shall apply to such trust indenture. A copy of any such trust indenture so deposited certified to be a true copy by the chairman or secretary of the company shall be *prima facie* evidence of the original without proof of the signature of such official.

Assent of electors to debenture by-laws not required.

22. It shall not be necessary to submit for the assent of the electors any by-law passed by the municipal council of any of the corporations to authorize the issue of debentures or for any other purpose whatever under this Act or any agreement herein referred to, and all such by-laws authorizing the issue of debentures and all debentures issued thereunder and the interest coupons attached thereto shall be legal, valid and binding upon said corporations respectively and the ratepayers thereof, and the validity thereof shall not be open to question in any court on any ground whatever, and no such debentures issued and debts contracted by any corporation shall be included in ascertaining the limits of the borrowing powers of said corporations as prescribed by *The Municipal Act*, and debentures may be issued and debts contracted by said corporations for the purposes aforesaid, notwithstanding the limitations prescribed by *The Municipal Act*.

Effect of alteration in municipal boundaries.

23. In the event of any alteration of the boundaries of the municipalities of the corporations which are parties to said agreement between the corporations and the company referred to in section 7 hereof either by the subdivision, redivision, absorption or amalgamation of said municipalities or any part thereof into new or existing corporations or by the annexation thereto of any additional territory or by the annexation thereof or any part thereof by any other municipal corporation, or in any other way whatsoever, the original corporations whose boundaries have been so altered shall remain parties to said agreement and the new corporations, if any, so formed shall upon their formation be parties to said agreement and be subject to all the provisions of this Act and of said agreement; and all of the ratepayers of the corporation the boundaries of the municipality of which have been enlarged by the annexation to it of the whole or any part of any other municipality shall be liable for the rates levied to meet the obligations of such corporation under said agreement and also the obligations of any other corporation the whole of which has been annexed to it; and any municipal corporation whose boundaries have been reduced and the ratepayers of such reduced municipality shall remain liable for the obligations of that corporation; but the respective liabilities of any new corporations so formed and of corporations whose boundaries have been so reduced or enlarged as between themselves shall be determined by The Hydro-Electric Power Commission of Ontario, whose decision shall be final and binding upon all the corporations, provided that nothing in this section contained shall entitle any corporation to a return of any debentures heretofore or hereafter issued and deposited by it with the Commission or the company.

Powers as to Company taking land.

24.—(1) Where land is required for any of the purposes for which land may be acquired or expropriated under *The Railway Act* the company in respect thereof shall have the powers and shall proceed in the manner provided by *The Public Works Act* where the Minister of Public Works takes land or property for the use of the Province of Ontario and the provisions of the said Act shall *mutatis mutandis* apply.

Rev. Stat., c. 52.

How compensation determined.

(2) Where compensation would be payable upon the exercise of any powers by the company under *The Railway Act,* the same shall be determined in the manner provided by *The Public Works Act.*

Application of certain sections of Rev. Stat., c. 224.

25. Sections 65 to 68, sections 177 to 185, sections 187 to 201 inclusive, and clause (*f*) of section 260 of *The Railway Act* and any other sections of *The Railway Act* which are inconsistent with the provisions of this Act or of the agreement between the company and the corporations or the agreement between the company and the Commission shall not apply to the company or to the Commission or to the railway.

Assessment and taxation.

26. The company shall in respect of the property vested in it be subject to assessment and taxation in the same manner and to the same extent only as if the said property were vested in the Commission.

Provision for payment of fees and expenses.

27. The fees and expenses incurred in and incidental to the creation and organization of the company and to the issue of the bonds of the company and to any procedure taken by the corporations and the company and the Commission pursuant to the provisions of this Act and of any agreements herein referred to, may be paid by the Commission out of the proceeds of any bonds, debentures or other securities of the company or out of the revenue from the operation of the railway.

Actions for negligence.

28. Every action brought for damages by reason of negligence in the operation of the railway shall be brought against the railway company and not against any of the corporations or the Commission and the railway company for the purposes of this section shall be deemed a municipal corporation and such action shall be brought and tried as if it were an action against a municipal corporation for damages in respect to injuries sustained by reason of the default of a corporation in keeping in repair a highway.

Regulation and control of taxi-cab and bus traffic.

29.—(1) Notwithstanding anything contained in *The Municipal Act* the Sandwich, Windsor and Amherstburg Railway Company from time to time may make by-laws and regulations which shall be in force in each of the municipalities from which a member is appointed to the said company for the following purposes:

(*a*) Regulating or prohibiting the use of any street or any part of a street upon which the tracks of the railway are laid by any class of vehicles.

(*b*) Fixing the places at which busses and other public vehicles and vehicles operating for hire may stop for the purpose of taking up or setting down passengers.

(*c*) Prohibiting the crossing of tracks or travelling or stopping of such vehicles upon the tracks of the railway in any manner which shall obstruct or hinder the operation of the railway or which may endanger life or property.

(*d*) Prescribing periods by day or night during which such vehicles shall not stop for the purpose of taking up or setting down passengers at any stated place.

(*e*) Regulating or prohibiting the soliciting of passengers or cruising or loitering by the drivers of such vehicles upon any street.

(*f*) Fixing the place and length of time where and during which any such vehicle may stand in any particular street.

(*g*) For imposing penalties for the violation of any such by-law or regulation, not exceeding, exclusive of costs, the sum of fifty dollars ($50) for each offence.

Penalties,—how recoverable.

Rev. Stat., c. 121.

(2) The penalties imposed under or by any such by-laws shall be recoverable under *The Summary Convictions Act*, and shall be paid to the treasurer of the municipality in which the offence occurred.

Corporations to be deemed one city corporation for certain purposes.

(3) Every such by-law and regulation shall have the same force and effect as if the municipalities from which members are appointed to the said company were one city corporation and the by-law or regulation had been passed by the commissioners of police or by the municipal council of the city, and in so far as any such by-law or regulation differs from the terms of any municipal by-law or regulation

in force at the same time the by-law or regulation passed under this section shall prevail; Provided, however, that all such by-laws shall be submitted to the Department of Public Highways for approval and shall not become operative until the Department shall have approved of same. Proviso.

30. This Act shall come into force on the day upon which it receives the Royal Assent. Commencement of Act.

SCHEDULE "A."

Agreement dated the 1st day of March, A.D. 1930.

BETWEEN:

SANDWICH, WINDSOR AND AMHERSTBURG RAILWAY COMPANY,
hereinafter called the "Company."

of the first part,

—and—

THE HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO,
hereinafter called the "Commission,"

of the second part.

Whereas the Company has been duly created and constituted under and in accordance with *The Sandwich, Windsor and Amherstburg Railway Act, 1930*, 20 George V, Chapter 17;

And whereas the Company has acquired from the Commission the Sandwich, Windsor & Amherstburg Railway more particularly referred to in the said Statute subject to the liabilities incurred by the Commission in connection with the acquisition, construction, equipment and operation of the Railway and the existing mortgage or charge in favour of the holders of the Bonds heretofore issued by the Commission in respect of said Railway and the payment of said liabilities and of the principal of and the interest on the said Bonds has been assumed by the Company and is henceforth an obligation of the Company which has agreed to indemnify and save harmless the Commission against the same;

And whereas the particulars of the said Bonds heretofore issued by the Commission in respect of said Railway are as follows:

Principal amount of Bonds issued	Interest Rate	Date	Date of Maturity
$2,100,000.00	4½%	1st April, 1920	1st April, 1960
900,000.00	6%	1st July, 1921	1st July, 1961
966,205.00	5%	1st Sept., 1923	1st Sept., 1945
750,000.00	5%	1st July, 1925	1st July, 1945
100,000.00	5%	1st Sept., 1925	1st Sept., 1945
1,000,000.00	5%	15th July, 1926	15th July, 1946

And whereas payment of the principal of and the interest on all of said Bonds has been guaranteed by the Province of Ontario;

And whereas all of said Bonds are now outstanding;

And whereas it is provided in said Statute that upon the execution of this Agreement an Agreement between the Company and certain Municipal Corporations referred to in said Statute shall come into force as provided in Section 7 of said Statute;

And whereas provision is made in said Agreement between the Company and said Municipal Corporations for the issue of Bonds by the Company under the provisions of a Trust Indenture to be entered into between the Company and a corporate Trustee and provision is also made for the Company entering into a Trust Indenture with a corporate Trustee for the purpose of securing the payment of said outstanding Bonds of the Commission;

And whereas it is provided in said Agreement that the Trustee in respect of the Bonds to be issued by the Company shall be the same as the Trustee in respect of said Bonds heretofore issued by the Commission:

Now therefore this indenture witnesseth that in consideration of the premises and for the considerations herein contained the parties hereto mutually covenant, promise and agree as follows:—

1. The Company hereby authorizes and appoints the Commission as the exclusive agent of the Company to manage, extend, complete, equip, maintain and operate the said Railway, and the Commission as such agent and subject to all the terms, conditions, provisoes and stipulations herein contained accepts the said appointment and agrees to efficiently perform its duties in connection therewith and to exercise all due skill and diligence so as to secure the most effective operation and service of the Railway; and the Commission as agent of the Company may have, enjoy, exercise and perform any and all the rights, powers, authorities, privileges, immunities, duties and obligations of the Company with respect to the Railway and the management, extension, completion, equipment, maintenance, operation, improvement, betterment and renewal thereof, and together with the right and power for and in the name of the Company to pass all By-laws which may be passed by the Company under Section 29 of the said *Sandwich, Windsor and Amherstburg Railway Act, 1930*, and the Company hereby delegates to the Commission the right and power to pass any and all such By-laws and Regulations.

2. The Commission shall be under no obligation whatever to commence or proceed with its duties hereunder or carry out any work under this Agreement unless the Company shall have first furnished the Commission with the monies estimated by the Commission from time to time to be necessary for such purpose, nor unless the Company shall have carried out and complied with all statutory requirements to be observed and performed by the Company, but the Commission shall be under no obligation to see to the observance or performance by the Company of said statutory requirements.

3. As part of the operation of the Railway, the Company authorizes the Commission:—

(*a*) To regulate and fix the fares and rates of toll to be collected by the Railway for all classes of service;

(*b*) To utilize the right-of-way and property of the Railway for all purposes from which it is possible to obtain a profit;

(*c*) Subject to the provisions of any Trust Indenture securing any Bonds issued by the Company, to combine the equipment, works and other property of the Railway with that used for power purposes by the Commission and for other railways operated by the Commission where such combination is in the opinion of the Commission feasible and may prove economical; and to apportion annually all charges respecting such equipment, works and other property in a fair manner having regard to the service furnished; provided that such apportionment may be by way of rental charges or otherwise; the apportionment of the Commission shall be final and binding;

(*d*) To permit and obtain interchange of traffic with other railways wherever possible and profitable.

4. The Company shall:—

(*a*) Furnish a free right-of-way for the Railway over any property of the Company and use its best endeavours to secure a free right-of-way for the Railway over the property of any of the Corporations upon request of the Commission and secure to the Commission free use of all land, property and other facilities available to the Company;

(*b*) Make no agreement or arrangement with and grant no franchise, license or inducement to any other railway or transportation company, body corporate or commission without the written consent of the Commission; and take all means within the power of the Company to ensure to the Commission the exclusive right of furnishing in any manner whatsoever local transportation within the boundaries of any of the Corporations;

(*c*) Keep, observe and perform the covenants, provisoes and conditions set forth in this Agreement intended to be kept, observed and performed by the Company, and execute such further and other documents and pass such By-laws and Resolutions as may be requested by the Commission for the purpose of fully effectuating the objects and intent of this Agreement, and use its best endeavour to secure from the said Corporations such further and other documents and By-laws as may be requested by the Commission for the purpose of fully effectuating the objects and intent of this Agreement;

(*d*) Issue all bonds, debentures and other securities, collect and pay over all monies and generally do all acts and carry out all obligations required or imposed by this Agreement and by any Statute of Ontario relating to the said Railway.

5. The Commission shall receive all revenue derived from the operation of the Railway and any other revenue derived from the undertaking of the Company and to the extent that the same may be available, shall in each year apply said revenue to the payment of operating expenses and working expenditure, the payment of interest and sinking fund in respect of said Bonds heretofore issued by the Commission for the Railway and in respect of the Bonds of the Company to be issued for the Railway, and the payment of all monies owing or payable to the Trustee under the Trust Indentures securing said Bonds of the Commission and of the Company, in setting aside such sums as the Commission may deem desirable for reserves for working expenditure, obsolescence, depreciation and contingencies, and for the renewal of any works belonging in whole or in part to the undertaking, and to reimburse the Commission and indemnify the Commission against any expenditure, liability or obligation which may be undertaken or incurred by the Commission when acting or purporting to act under this Agreement; and it is hereby agreed that the Commission may apply said revenue for any or all of the purposes aforesaid in such amounts, with such preferences and priorities, or without any preference or priority as the Commission in its sole discretion may determine.

6. At least thirty (30) days prior to the respective dates on which interest and/or sinking fund payments fall due in respect of each issue of said Bonds of the Commission and/or of the Company the Commission shall estimate and pay to or make arrangements satisfactory to the Trustee for payment to the Trustee under said Indentures securing said Bonds of the Commission and of the Company of the amount of revenue, if any, from the operation of the Railway which is available to be allocated to meet interest and sinking fund in respect of each said issue of Bonds made by the Company and in respect of each issue of Bonds heretofore made by the Commission in respect of the Railway, and shall certify to said Trustee the amount remaining to be paid by each Corporation for interest and/or sinking fund in the manner and with the effect more particularly provided for in the Agreement between the Company and the Corporations hereinbefore mentioned.

7. In addition to the annual deficits, if any, in respect of interest and/or sinking fund payable by the Corporations as provided in paragraph 6 of this Agreement the Commission shall certify to said Trustee in each year the aggregate sum, if any, by which the revenue derived by the Commission from the operation of the Railway and any other revenue derived by the Commission from the undertaking of the Company is insufficient to meet in that year the operating expenses, working expenditure, reserves and all other liabilities and obligations (other than for interest and sinking fund) to which the said revenue may be applied by the Commission as hereinbefore in this Agreement provided and the Commission shall also certify to the said Trustee the respective amounts of such aggregate sum to be paid by each Corporation in the manner and with the effect more particularly provided for in the Agreement between the Company and the Corporations hereinbefore mentioned.

8.—(*a*) For the purpose of supplementing the revenue of the Railway in the hands of the Commission under this Agreement and of providing additional monies, if any, required by the Company and†or the Commission for the purposes mentioned in paragraph 5 of this Agreement, the Company shall forthwith issue and deliver to the Commission Debentures of the Company to the principal amount of Five Hundred Thousand Dollars ($500,000) and from time to time will issue and deliver to the Commission Debentures of such further principal amounts as may be demanded by the Commission from time to time, and notwithstanding that the said Debentures may purport to be obligations of the Company only the said Debentures shall be made direct joint and several obligations of the Corporations who are parties to said Agreement between the Corporations and the Company, and each of said Corporations shall be jointly and severally liable for the payment of the principal of said Debentures and of the interest thereon and for every indebtedness created by or in connection with the said Debentures.

(*b*) The said Debentures of the Company shall bear such date, carry such rate of interest, be payable at such place or places and in such monies and be upon such terms and conditions, and mature within such period from the date thereof as the Commission shall from time to time require.

(*c*) The Commission from time to time in the name of and as agent for the Company may borrow or raise such sums as the Commission may deem advisable for any of the purposes aforesaid and may deposit, pledge, hypothecate, charge, sell or otherwise deal with any of said Debentures delivered to it by the Company and receive the proceeds thereof and apply the proceeds for any of said purposes.

(*d*) Subject as hereinafter in this sub-paragraph provided the Commission as the agent of and in the name of the Company may declare that the said Debentures are charged upon and secured by such assets of the Railway in such manner and upon such terms and conditions and subject to such provisions as the Commission may deem advisable, but in relation to the said assets all said Debentures shall be junior and subordinate to and rank after all said Bonds of the Commission and all Bonds issued or to be issued by the Company in respect of the Railway.

(*e*) All or any of the said Debentures which may be pledged, hypothecated or charged as security for advances or loans and which are re-delivered to the Commission with or without payment, satisfaction, release or discharge in whole or in part of any such advances or loans may be re-pledged, re-hypothecated or re-charged, sold or otherwise disposed of as and when the Commission may think fit.

(*f*) Nothing in this paragraph contained shall in any way limit any other obligation of the Corporations under said Agreement between the Company and the Corporations hereinbefore referred to.

9. If the Company should fail to perform any obligation under this Agreement or if any Municipal Corporations should fail to perform any obligation under the Sandwich, Windsor and Amherstburg Railway Act, 1930, or any amendment thereof or under the Agreement between the Company and the Corporations therein referred to the Commission in addition to all other remedies and without liability to either the Company or the Corporations or any of them may, with or without notice and in its absolute discretion, discontinue the service of the Railway in whole or in part and also terminate this Agreement and upon such termination the Commission shall have no further obligation under this Agreement; no such discontinuance of service shall relieve the Company or any Corporation from the performance of any obligation to be performed by them or any of them as in this Agreement or in said Statute, or any amendment thereto or said Agreement between the Company and the Corporations.

10. It is understood and agreed that whenever any Municipal or other work is carried out in any Municipality which in any way affects the Railway, but is not a portion of the Railway, no part of the cost of the same shall be charged against the revenue of the Railway, but that the said cost shall be paid by the Corporation or Corporations within the boundaries of the Municipalities of which the work is done and the said Corporation or Corporations shall indemnify and save harmless the Company and the Commission therefrom; excepting always in special cases of small matters where the Commission may be willling that such cost may be treated and paid as working expenditure.

11. If at any time the Commission deems it necessary for proper and efficient operation of the Railway to construct a connection or connections between the Railway and any other Railway operated by the Commission, the Commission may construct such connection and the cost thereof shall be apportioned by the Commission between the Railway and such other Railway operated by the Commission, and such apportionment may be by way of rental charges or otherwise; provided that the part of the cost apportioned to the Railway under this Agreement shall be met as the Commission may determine.

12.—(1) The Commission shall not be liable to the Company or the Corporations or otherwise in any way by reason of any error or omission in any reports, estimates, plans or specifications made for the Company or for any act or omission of the Commission in exercising or purporting to exercise the powers and authorities conferred upon it by this Agreement or otherwise.

(2) The Commission as regards all power and authorities conferred upon it by this Agreement shall have absolute and uncontrolled discretion as to the exercise thereof whether in relation to the manner or to the mode or to the time of such exercise and the Commission shall not be liable to the Company or to the Corporations in any way for its exercise of such discretion.

13. The Commission shall have the conduct and control of all claims and actions brought in respect of the Railway whether for alleged negligence arising out of the operation of the Railway or for any other matter or thing in connection with the Railway, and may defend or compromise, settle or dispose of the same as it deems expedient, and such defence, compromise, settlement or disposal shall be binding upon the Company and the Corporations.

14. The Commission shall not be obliged to undertake or continue any work or responsibility under this Agreement until the monies necessary therefor shall have been furnished by the Company to the Commission.

15. The Company as principal hereby agrees to indemnify and save harmless its agent, the Commission, from and against all liability, loss, damage, claim, demands, costs, charges and expenses in connection with the Railway and in connection with the performance by the Commission of its duties and powers under this Agreement.

16. The parties hereto or either of them may transfer and assign the benefits and advantages accruing under this Agreement to the Trustee under the Trust Indentures, or either of them, securing the Bonds of the Company and the Bonds heretofore issued by the Commission in respect of the Railway.

17. By way of compensation to the Commission for the performance of its obligations hereunder the Company agrees to pay to the Commission the cost to the Commission as determined by the Commission of all work done and services performed by it pursuant to this Agreement and the cost to the Commission as determined by the Commission in accordance with the Power Commission Act of supplying electrical power or energy for the purposes of the Railway, which power or energy the Commission is hereby exclusively authorized to supply, and the Commission may deduct such costs payable to it so far as the same may be available from the revenue derived from the operation of the Railway.

In Witness Whereof the Commission and the Company have caused this Contract to be executed under their Corporate Seals and the hands of their proper officers duly authorized thereto.

The Hydro-Electric Power Commission of Ontario,

....
Chairman.

....
Secretary.

Sandwich, Windsor and Amherstburg Railway Company,

....

....

CHAPTER 18

An Act respecting The Windsor, Essex and Lake Shore Rapid Railway Company.

Assented to 3rd April, 1930.

HIS MAJESTY, by and with the advice and consent of the Legislative Assembly of the Province of Ontario, enacts as follows:

Short title.

1. This Act may be cited as *The Windsor, Essex and Lake Shore Rapid Railway Act, 1930.*

Municipal by-laws confirmed.

2. By-law number 850 of the township of Sandwich West; by-law number 1225 of the township of Sandwich East; by-law number 659 of the township of Sandwich South; by-law number 839 of the town of Essex; by-law number 695 of the township of Gosfield North; by-law number 339 of the township of Gosfield South; by-law number 692 of the town of Kingsville; by-law number 1366 of the town of Leamington, and by-law number 3938 of the city of Windsor, and all debentures issued or purporting to be issued under any of the said by-laws are confirmed and declared to be legal, valid and binding upon the said municipal corporations and the ratepayers thereof respectively, and shall not be open to question upon any ground whatsoever.

Mortgage deed of trust confirmed.

3. The Mortgage Deed of Trust dated 1st February, 1929, between Windsor, Essex and Lake Shore Electric Railway Association and Guaranty Trust Company of Canada as trustee, made to authorize and secure the bonds of Windsor, Essex and Lake Shore Electric

Railway Association, Limited, in the first instance to the amount of $1,000,000 but subject to increase as therein mentioned, and all the terms and provisions therein contained are hereby declared to be valid and binding upon said association and upon the municipal corporations referred to therein, and any and all obligations of said municipal corporations to said association under *The Windsor, Essex and Lake Shore Rapid Railway Act, 1928*, and *The Windsor, Essex and Lake Shore Rapid Railway Act, 1929*, and the agreement between said municipal corporations and said association referred to in said mortgage deed of trust and the rights, powers, privileges and remedies conferred upon the association thereunder and which have been assigned, transferred to and vested in said trustee under said mortgage deed of trust may be enforced directly against said municipal corporations by said trustee as fully and effectually as if said municipal corporations were parties to said mortgage deed of trust and had covenanted and agreed with said trustee to perform all of said obligations in said Statutes and in said agreement on the part of said corporations to be observed and performed and upon any action or proceeding by said trustee to enforce any of said obligations none of said corporations shall be entitled to raise as a defence thereto any set off, claim or demand whatsoever which any of said corporations might have against said association.

Assessment and taxation.

4. The said association shall in respect of the property vested in it be subject to assessment and taxation to the same extent only as if the said property were vested in The Hydro-Electric Power Commission of Ontario.

1929, c. 56, s. 8, subs. 1, amended.

5. Subsection 1 of section 8 of *The Windsor, Essex and Lake Shore Rapid Railway Act, 1929*, shall be amended by striking out the first word "The" in the first line thereof, and substituting therefor the words "All fees and," and is further amended by adding after the word "Association" in the second line thereof the words "and to the creation, issue and disposal of the bonds of the association, and to any proceedings taken by the corporations and the Commission pursuant to the provisions of this Act and of *The Windsor, Essex and Lake Shore Electric Railway Act, 1928*," and is further amended by adding at the end of the said subsection the following words, "or as part of the working expenditure of the railway," so that the subsection will now read as follows:

Provision for fees and expenses.

(1) All fees and expenses incurred in and incidental to the creation and organization of the association and to the creation, issue and disposal of the bonds of the association and to any proceedings taken by the corporations and the Commission pursuant to the provisions of this Act and of *The Windsor, Essex and Lake Shore Electric Railway Act, 1928*, to such amount as shall be approved by the Commission may be paid by the Commission as part of the capital expenditure for the acquisition and rehabilitation of the railway, or as part of the working expenditure of the railway.

Commencement of Act.

6. This Act shall come into force on the day upon which it receives the Royal Assent.

APPENDIX II

TRANSMISSION LINE RECORDS

Corrected to October 31, 1930

including

Summaries of data respecting mileage of transmission lines built or acquired by the Hydro-Electric Power Commission. The sizes, materials, lengths and weights of conductors, and other particulars of the high-voltage steel-tower transmission lines, the wood-pole transmission lines —excepting 4,000 volts or less—and the telephone lines.

TRANSMISSION LINE RECORDS—ALL SYSTEMS

The total mileage of lines built and acquired by the Commission up to October 31, 1930, for the various systems, excepting all lines operating at less than 4,000 volts, is indicated in the following table:

TOTAL MILEAGE OF TRANSMISSION LINES

System	Miles
Niagara system—220,000-volt, steel-supported transmission lines, 1st circuit	203.22
Niagara system—220,000-volt, steel-supported transmission lines, 2nd circuit	*202.91
Niagara system—110,000-volt, steel-supported transmission lines	728.71
Niagara system—110,000-volt, wood-supported transmission lines	68.75
Eastern Ontario system—110,000-volt, steel-supported transmission lines	52.93
Eastern Ontario system—110,000-volt, wood-supported transmission lines	61.58
Thunder Bay system—110,000-volt, steel-supported transmission lines	82.12
Thunder Bay system—110,000-volt, wood-supported transmission lines	82.75
Thunder Bay system—12,000-volt, wood-supported transmission lines	1.45
Georgian Bay system—110,000-volt, wood-supported transmission lines	55.83
Niagara system—90,000-volt, steel-supported transmission lines	65.72
Niagara system—60,000-volt, steel-supported transmission lines	54.07
Niagara system—60,000-volt, wood-supported transmission lines	17.12
Niagara system—46,000-volt, steel-supported transmission lines	28.98
Niagara System—46,000-volt, wood-supported transmission lines	21.54
Niagara system—30,000-volt, wood-supported transmission lines	22.00
Niagara system—26,400-volt, wood-supported transmission lines	549.05
Niagara system—13,200-volt, wood-supported transmission lines	446.61
Niagara system—12,000-volt, wood-supported transmission lines	179.61
D.P. & T. system—44,000-volt, steel-pole transmission lines	36.16
D.P. & T. system—44,000-volt, wood-pole transmission lines	155.30
D.P. & T. system—22,000-volt, wood-pole transmission lines	25.46
D.P. & T system—22,000-volt, concrete-pole transmission lines	10.55
D.P. & T. system—13,000-volt, wood-pole transmission lines	2.30
D.P. & T. system—11,000-volt, wood-pole transmission lines	12.93
Georgian Bay system—(38,000-volt)	56.58
Georgian Bay system—	
Severn district (22,000-volt)	175.88
Eugenia district (22,000-volt)	288.63
Wasdells district (22,000-volt)	82.95
Muskoka district (38,000-volt and less)	26.47
Eastern Ontario system—	
Central Ontario district (44,000-volt and less)	509.59
St. Lawrence district (44,000-volt)	120.02
Rideau district (26,400-volt)	76.96
Madawaska district—(33,000-volt and less)	70.26
Northern Ontario system—	
Nipissing district (22,000-volt)	26.88
Sudbury district (22,000-volt)	34.00
Total	4,635 87
Total separate wood-pole telephone lines for high-voltage systems	1,098.81

NOTE—Of the above the Niagara system is operated at 25 cycles. The other systems are operated at 60 cycles.

*Second circuit completed January 26, 1930.

TRANSMISSION LINE RECORDS—ALL SYSTEMS

TOTAL MILEAGES AND WEIGHTS OF CONDUCTORS

Type of construction	Wire miles of conductor			Weight in pounds		
	Completed to Oct. 31, 1929	Completed Oct. 31, 1929, to Oct. 31, 1930	Under construction Oct. 31, 1930	Completed to Oct. 31, 1929	Completed Oct. 31, 1929, to Oct. 31, 1930	Under construction Oct. 31, 1930
High-voltage lines, 220,000 volts, Niagara system..............	945.72	272.67	270.00	5,113,508	1,474,326	1,459,890
High-voltage lines, 110,000 volts and less, Niagara system......	5,040.78	3.51	21.48	15,541,918	12,035	90,146
High-voltage lines, 110,000 volts, Eastern Ontario system.......	351.42	....	....	1,390,773	....	....
High-voltage lines, 110,000 volts, Thunder Bay system..........	538.35	207.09	....	1,344,406	577,367	....
High-voltage lines, 110,000 volts, Georgian Bay system.....	....	176.67	....	....	231,104	....
Wood-pole lines built and acquired by the Commission............	9,463.81	301.14	....	9,898,710	377,911	....
Telephone lines built and acquired by the Commission and erected on wood-pole lines carrying power conductors.	4,429.76	170.84	....	1,069,087	36,664	....
High-voltage telephone lines, Niagara system, 220,000 volts........	421.00	....	....	81,833	....	....
High-voltage telephone lines. Niagara system.	3,497.96	....	....	965,403	....	....
High-voltage telephone lines Eastern Ontario system..............	227.86	....	....	79,358	....	....
High-voltage telephone lines, Thunder Bay system....	201.10	....	....	71,770	....	....
High-voltage telephone lines, Georgian Bay system.............	....	111.66	....	....	43,394	....
Totals............	25,117.76	1,243.58	291.48	35,556,766	2,752,801	1,550,036

NOTE—This table does not include lines operated at less than 4,000 volts.

NIAGARA SYSTEM

TOTAL MILEAGE OF HIGH-VOLTAGE LINES

	Completed to Oct. 31, 1929	Oct. 31, 1929 to Oct. 31, 1930	Total to Oct. 31, 1930
220,000-volt, steel-supported transmission lines......	315.24	90.89	406.13

SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductors		
	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Completed to Oct. 31, 1930
795,000 c.m., a.c.s-r............................	945.72	272.67	1,218.39

EASTERN ONTARIO SYSTEM

TOTAL MILEAGE OF HIGH-VOLTAGE LINES

	Completed to Oct. 31, 1929	Total to Oct. 31, 1930
110,000-volt, steel-supported transmission lines..................	52.93	52.93
110,000-volt, wood-supported transmission lines.................	61.58	61.58
Totals..	114.51	114.51

SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductors		Weight in pounds	
	Completed to Oct. 31, 1929	Total to Oct. 31, 1930	Completed to Oct. 31, 1929	Total to Oct. 31, 1930
477,000 c.m., a.c.s-r.................	278.43	278.43	1,277,201	1,277,201
211,600 c.m., a.c.s-r. (4 0)...........	72.99	72.99	113,572	113,572
Totals................	351.42	351.42	1,390,773	1,390,773

Note—a.c.s-r=Aluminum conductor, steel-reinforced; weights include steel.

220,000-VOLT TRANSMISSION LINES

TOTAL NUMBER OF STEEL TOWERS

	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Total to Oct. 31, 1930
220,000-volt towers	1,535	487	2,022

WEIGHT OF POWER CONDUCTORS

Weight in pounds			Miles of single-circuit lines		
Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Completed to Oct. 31, 1930	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Completed to Oct. 31, 1930
5,113,508	1,474,326	6,587,834	315.24	90.89	406.13

HIGH-VOLTAGE TRANSMISSION LINES

TOTAL NUMBER OF STEEL TOWERS AND WOOD POLES

	Completed to Oct. 31, 1929	Completed to Oct. 31, 1930
110,000-volt steel towers	294	294
110,000-volt wood poles	842	842
Totals	1,136	1,136

WEIGHT OF POWER CONDUCTORS

Miles of single-circuit lines		Miles of double-circuit lines		Total miles single- and double-circuit lines Oct. 31, 1930
Completed to Oct. 31, 1929	Total to Oct. 31, 1930	Completed to Oct. 31, 1929	Total to Oct. 31, 1930	
87.55	87.55	2.63	2.63	90.18
24.33	24.33	....	....	24.33
111.88	111.88	2.63	2.63	114.51

NIAGARA SYSTEM

TOTAL MILEAGE OF HIGH-VOLTAGE LINES

	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Total to Oct. 31, 1930
110,000-volt, steel-supported transmission lines	715.93	12.78	728.71
110,000-volt, wood-supported transmission lines	68.23	0.52	68.75
90,000-volt, steel-supported transmission lines	65.72		65.72
60,000-volt, steel-supported transmission lines	54.07		54.07
60,000-volt, wood-supported transmission lines	17.12		17.12
30,000-volt, and less, wood-supported transmission lines	21.77	0.23	22.00
Totals	942.84	13.53	956.37

SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductor: Completed to Oct. 31, 1929	Wire miles of conductor: Completed Oct. 31, 1929 to Oct. 31, 1930	Wire miles of conductor: Under construction Oct. 31, 1930	Weight in pounds: Completed to Oct. 31, 1929	Weight in pounds: Completed Oct. 31, 1929 to Oct. 31, 1930	Weight in pounds: Under construction Oct. 31, 1930
167,800 c.m., a.c.s-r	198.00			242,946		
266,800 c.m., a.c.s-r	308.43			558,566		
312,000 c.m., a.c.s-r	598.62			1,547,432		
336,400 c.m., a.c.s-r	571.14			1,592,338		
477,000 c.m., a.c.s-r	46.80	1.26		157,950	4,252	
500,000 c.m., a.c.s-r	246.30			1,010,322		
605,000 c.m., a.c.s-r	1,185.69	0.69	19.80	4,882,670	2,841	81,536
115,000 c.m., copper	22.47			41,996		
190,000 c.m., copper	767.52	1.56		2,431,503	4,942	
167,800 c.m., copper	616.86			1,679,709		
211,600 c.m., copper	322.02			1,105,494		
115,000 c.m., aluminum	0.57			327		
211,600 c.m., aluminum	34.20			35,910		
345,000 c.m., aluminum	79.50			130,141		
500,000 c.m., aluminum	6.60			16,434		
820,000 c.m., aluminum	36.06			108,180		
1,033,500 c.m., aluminum			1.68			8,610
Totals	5,040.78	3.51	21.48	15,541,918	12,035	90,146

NOTE—a.c.s-r=Aluminum conductors, steel-reinforced. Weights include steel.

HIGH-VOLTAGE TRANSMISSION LINES

TOTAL NUMBER OF STEEL TOWERS AND WOOD POLES

	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Total to Oct. 31, 1930
110,000-volt, steel towers	6,031	155	6,186
110,000-volt, wood poles	846	9	855
90,000-volt, steel towers	747	....	747
60,000-volt, steel towers	769	....	769
60,000-volt, wood poles	506	....	506
30,000-volt and less, wood poles	1,003	10	1,013
Totals	9,902	174	10,076

WEIGHT OF POWER CONDUCTORS

Miles of single-circuit lines			Miles of double-circuit lines			Miles of four-circuit lines			Total miles one, two and four-circuit lines
Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Under construction Oct. 31, 1930	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Under construction Oct. 31, 1930	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Under construction Oct. 31, 1930	Completed to Oct. 31, 1930
66.00	....	....	....	....	....	....	....	....	66.00
38.31	....	....	32.25	....	....	....	....	....	70.56
23.90	....	....	87.82	....	....	....	....	....	111.72
....	....	....	95.19	....	....	....	....	....	95.19
15.60	....	....	....	0.21	....	....	....	....	15.81
0.62	....	....	40.74	....	....	....	....	....	41.36
0.98	0.23	....	192.11	....	3.30	2.52	....	....	195.84
7.49	....	....	....	....	....	....	....	....	7.49
4.74	0.52	....	125.55	....	....	....	....	....	130.81
....	....	....	102.81	....	....	....	....	....	102.81
....	....	....	53.67	....	....	....	....	....	53.67
0.19	....	....	....	....	....	....	....	....	0.19
....	....	....	5.70	....	....	....	....	....	5.70
....	....	....	13.25	....	....	....	....	....	13.25
....	....	....	1.10	....	....	....	....	....	1.10
12.02	....	....	....	....	....	....	....	....	12.02
....	....	0.56	....	....	....	....	....	....	....
169.85	0.75	0.56	750.19	0.21	3.30	2.52	....	....	923.52

THUNDER BAY SYSTEM

MILEAGE OF HIGH-VOLTAGE LINES

	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Total to Oct. 31, 1930
110,000-volt, steel-supported transmission lines......	81.89	0.23	82.12
110,000-volt, wood-supported transmission lines.....	82.75	....	82.75
12,000-volt, wood-supported transmission lines......	1.45	....	1.45
Totals............................	166.09	0.23	166.32

SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductors			Weight in pounds		
	Completed to Oct. 31, 1929	Oct. 31, 1929 to Oct. 31, 1930	Under construction Oct. 31, 1930	Completed to Oct. 31, 1929	Oct. 31, 1929 to Oct. 31, 1930	Under construction Oct. 31, 1930
336,400 c.m., a.c.s-r...........	71.13	207.09	....	198,310	577,367	....
4/0 a.c.s-r (211,600 c.m.)......	233.67	....	....	363,590	....	....
4/0 copper (211,600 c.m.).....	218.40	....	....	749,767	....	....
2/0 copper (133,079 c.m.).....	15.15	....	....	32,739	....	....
Totals..........	538.35	207.09	....	1,344,406	577,367	....

NOTE—a.c.s-r.=Aluminum conductor, steel-reinforced. Weights include steel.

GEORGIAN BAY SYSTEM—

MILEAGE OF HIGH-VOLTAGE LINES

	Completed Oct. 31, 1929 to Oct. 31, 1930	Total to Oct. 31, 1930
110,000-volt, wood-supported transmission lines..............	55.83	55.83
Totals..................................	55.83	55.83

SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductor	
	Completed Oct. 31, 1929 to Oct. 31, 1930	Total completed Oct. 31, 1930
3/0 a.c.s-r. (167,800 c.m.)................................	167.49	167.49
336,400 c.m., a.c.s-r..	9.18	9.18
Totals..................................	176.67	176.67

HIGH-VOLTAGE TRANSMISSION LINES

TOTAL NUMBER OF STEEL TOWERS AND WOOD POLES

	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Total to Oct. 31, 1930
110,000-volt steel towers	533	6	539
110,000-volt wood poles	1,342	....	1,342
12,000-volt wood poles	59	....	59
Totals	1,934	6	1,940

WEIGHT OF POWER CONDUCTORS

Miles of single-circuit conductors			Miles of double-circuit conductors			Total miles single- and double-circuit conductors
Completed to Oct. 31, 1929	Oct. 31, 1929 to Oct. 31, 1930	Under construction Oct. 31, 1930	Completed to Oct. 31, 1929	Oct. 31, 1929 to Oct. 31, 1930	Under construction Oct. 31, 1930	Completed to Oct. 31, 1930
15.31	68.34	....	4.20	0.23	....	88.08
77.89	....	....	....	....	....	77.89
72.80	....	....	....	....	....	72.80
5.05	....	....	....	....	....	5.05
171.05	68.34	....	4.20	0.23	....	243.82

Note—a.c.s-r=Aluminum conductor, steel-reinforced. Weights include steel.

HIGH-VOLTAGE TRANSMISSION LINES

TOTAL NUMBER OF STEEL TOWERS AND WOOD POLES

	Completed Oct. 31, 1929 to Oct. 31, 1930	Total to Oct. 31, 1930
110,000-volt wood poles	548	548
Totals	548	548

WEIGHT OF POWER CONDUCTORS

Weight in pounds		Miles of single-circuit lines		Total miles single-circuit lines
Completed Oct. 31, 1929 to Oct. 31, 1930	Total completed Oct. 31, 1930	Completed Oct. 31, 1929 to Oct. 31, 1930	Total completed Oct. 31, 1930	Completed to Oct. 31, 1930
205,510	205,510	55.83	55.83	55.83
25,594	25,594	3.06	3.06	3.06
231,104	231,104	58.89	58.89	58.89

Note—a.c.s.r.=Aluminum conductor, steel-reinforced. Weights include steel.

NIAGARA SYSTEM—WOOD-POLE TELEPHONE LINES

SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductors		Weight in pounds		Miles of single-circuit lines	
	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930
No. 8 B. & S.G. copper....	32.18	....	8,494	....	16.09	....
No. 9 B. & S.G. copper....	1,082.90	....	226,326	....	91.65	....
No. 10 B. & S.G. copper....	1,120.80	....	186,053	....	205.94	....
No. 11 B. & S.G. copper....	107.68	....	17,013	....	53.84	....
No. 4 copper-clad steel.....	12.00	....	7,440	....	....	....
No. 8 copper-clad steel.....	124.40	....	30,478	....	....	....
No. 14 copper-clad steel.....	7.68	....	468	....	....	....
No. 17 copper-clad steel.....	10.88	....	326	....	5.44	....
No. 19 p-i. l-c. cable........	819.20	....	112,082	....	....	....
No. 22 p-i. l-c. cable........	34.00	....	296,208	....	....	....
No. 12 B.W.G. galv. iron....	11.40	....	1,881	....	5.70	....
No. 12 weather-proof iron...	2.84	....	886	....	1.42	....
6 x .0661 steel, 1 x .0661 alum.	132.00	....	77,748	....	66.00	....
Totals...............	3,497.96	....	965,403	....	446.08	....

NOTE—B. & S.G.=Browne & Sharpe gauge.
a.c. s-r.=Aluminum cable, steel-reinforced.

FOR HIGH-VOLTAGE TRANSMISSION LINES

WEIGHT OF CONDUCTORS (Excluding 220,000-volt lines)

Miles of double-circuit lines		Miles of 4-circuit lines		Miles of paper-insulated lead-covered copper		Total mileage 1-, 2-, 4-, and miscellaneous circuits completed to Oct. 31, 1930
Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	
....	....	....	....	....	....	16.09
212.80	....	6.05	....	....	....	310.50
177.23	....	....	....	....	....	383.17
....	....	....	....	....	....	53.84
3.00	....	....	....	....	....	3.00
28.36	....	1.37	....	....	....	29.73
1.92	....	....	....	....	....	1.92
....	....	....	....	....	....	5.44
....	....	....	....	11.16	....	11.16
....	....	....	....	0.34	....	0.34
....	....	....	....	....	....	5.70
....	....	....	....	....	....	1.42
....	....	....	....	....	....	66.00
423.31	....	7.42	....	11.50	....	888.31

NOTE—B.W.G.=Birmingham wire gauge.
p-i. l-c. cable=Paper-insulated lead-covered cable.

THUNDER BAY SYSTEM—WOOD-POLE TELEPHONE

SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductor			Weight in pounds		
	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Under construction Oct. 31, 1930	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Under construction Oct. 31, 1930
3 x 12 galv. steel	13.24	....	....	6,554	....	....
3 x 13 galv. steel	161.04	....	....	60,390	....	....
No. 6 a.c.s-r	18.32	....	....	3,517	....	....
No. 10 copper-clad steel	8.50	....	....	1,309	....	....
Totals	201.10	....	....	71,770	....	....

LINE FOR HIGH-VOLTAGE TRANSMISSION LINES

WEIGHT OF CONDUCTORS

Miles of single-circuit lines			Total mileage of single-circuit lines completed to Oct. 31, 1930
Completed Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Under construction Oct. 31, 1930	
6.62	....	....	6.62
80.52	....	....	80.52
9.16	....	....	9.16
4.25	....	....	4.25
100.55	....	....	100.55

WOOD AND STEEL-POLE TRANSMISSION AND TELEPHONE LINES

(Excluding High-Voltage Lines)

TOTAL MILEAGE OF LINES AND NUMBER OF POLES

Lines	Miles completed		
	To Oct. 31, 1929	Oct. 31, 1929 to Oct. 31, 1930	Total to Oct. 31, 1930
Low-tension lines completed	2,556.87	99.03	2,655.90
Low-tension lines under construction	....	....	....
Single-circuit lines completed	1,990.08	97.68	2,087.76
Double-circuit lines completed	526.85	1.35	528.20
Three-circuit lines completed	23.73	....	23.73
Four-circuit lines completed	15.88	....	15.88
Five-circuit lines completed	0.33	....	0.33
Single-circuit telephone lines completed	2,064.50	141.25	2,205.75
Double-circuit telephone lines completed	143.66	....	143.66
Three-circuit telephone lines completed	7.54	....	7.54
STEEL AND WOOD POLES			
Number of poles erected	101,059	2,942	104,001
Number of steel poles erected	376	....	376
Number of poles under construction	795	....	795

NOTE—a.c.s-r. =Aluminum conductor, steel-reinforced.

NIAGARA SYSTEM TELEPHONE LINES

SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductors			Weight in pounds		
	Completed to Oct. 31, 1929	Completed Oct. 31, 1929, to Oct. 31, 1930	Completed to Oct. 31, 1930	Completed to Oct. 31, 1929	Completed Oct. 31, 1929, to Oct. 31, 1930	Completed to Oct. 31, 1930
No. 6 a c. s-r..........	362.14	....	362.14	69,531	....	69,531
No. 9 copper..........	58.86	....	58.86	12,302	....	12,302
Totals..........	421.00	....	421.00	81,833	....	81,833

EASTERN ONTARIO SYSTEM

SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductors
	Completed to Oct. 31, 1930
3 x .0661 aluminum.......... 4 x .0661 steel..........	128.62
1 x .0661 aluminum.......... 6 x .0661 steel..........	99.24
Totals..........	227.86

GEORGIAN BAY SYSTEM—TELEPHONE LINE

SIZE, MATERIAL, LENGTH AND

Size and material	Wire miles of conductors	
	Completed Oct. 31, 1929 to Oct. 31, 1930	Completed to Oct. 31, 1930
1 x .0661 aluminum and 6 x .0661 steel..........	111.66	111.66
Totals..........	111.66	111.66

FOR 220,000-VOLT LINES

WEIGHT OF CONDUCTORS

Miles of single-circuit lines		Total mileage of single-circuit lines completed to Oct. 31, 1930
Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	
181.07	....	181.07
29.43	....	29.43
210.50	....	29.43

HIGH-VOLTAGE TELEPHONE LINES

WEIGHT OF CONDUCTORS

Weight in pounds	Miles of single-circuit lines	Total mileage of single-circuit lines completed to Oct. 31, 1930
Completed to Oct. 31, 1930	Completed to Oct. 31, 1930	
40,258	64.31	64.31
39,100	49.62	49.62
79,358	113.93	113.93

FOR HIGH-VOLTAGE TRANSMISSION LINES

WEIGHT OF CONDUCTORS

Weight in pounds		Miles of single-circuit lines	
Completed Oct. 31, 1929 to Oct. 31, 1930	Completed to Oct. 31, 1930	Completed Oct. 31, 1929 to Oct. 31, 1930	Completed to Oct. 31, 1930
43,394	43,394	55.83	55.83
43,394	43,394	55.83	55.83

WOOD AND STEEL-POLE

SUMMARY—

GAUGE, LENGTH AND

Size and material of conductors	Wire miles of conductors			Weight in pounds			Miles of
	Completed to Oct. 31, 1929	Completed Oct. 31, 1299 to Oct. 31, 1930	Under construction Oct. 31, 1930	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Under construction Oct. 31, 1930	Completed to Oct. 31, 1929
500,000 c.m. aluminum	78.66			195,863			2.50
345,000 c.m. aluminum	215.19			352,266			1.51
336,400 c.m. aluminum	7.26			12,109			
300,000 c.m. aluminum	42.30			63,027			
173,000 c.m. aluminum	37.29			32,293			1.51
4/0 alum. (211,600 c.m.)	771.27			813,130			183.89
3/0 alum. (167,800 c.m.)	1,989.18			1,658,974			250.94
2/0 alum. (133,079 c.m.)	183.60			122,093			32.68
1/0 alum. (105,534 c.m.)	710.85	15.93		373,195	8,363		161.33
No. 2 alum. (66,373 c.m.)	342.63			113,067			106.91
477,000 c.m. a.c.s-r	103.80			350,325			34.60
605,000 c.m. a.c.s-r	2.10			8,377			0.70
336,400 c.m. a.c.s-r	140.68	36.12		364,333	100,702		42.36
125,000 c.m. a.c.s-r	233.34			214,672			77.78
4/0 a.c.s-r (211,600 c.m.)	368.55	64.95		573,461	101,062		98.51
3/0 a.c.s-r (167,800 c.m.)	148.02	90.45		181,619	110,982		27.04
2/0 a.c.s-r (133,079 c.m.)	87.84			85,819			33.18
1/0 a.c.s-r (105,534 c.m.)	774.96	30.81		605,089	23,908		255.66
No. 2 a.c.s-r (66,373 c.m.)	1,186.95	62.13		595,406	30,319		349.60
No. 4 a.c.s-r (41,742 c.m.)	57.00			17,442			19.00
190,000 c.m. copper	131.52			416,655			19.82
173,000 c.m. copper	3.75			10,552			1.25
115,000 c.m. copper	73.95			138,212			17.39
4/0 copper (211,600 c.m.)	209.55	0.75		719,316	2,575		0.63
3/0 copper (167,800 c.m.)	3.36			9,149			
2/0 copper (133,079 c.m.)	236.91			511,961			35.17
1/0 copper (105,534 c.m.)	218.64			373,873			51.08
No. 1 copper (83,694 c.m.)	9.00			12,258			3.00
No. 2 copper (66,373 c.m.)	63.69			68,720			21.23
No. 3 copper (52,634 c.m.)	18.42			15,749			4.80
No. 4 copper (41,742 c.m.)	147.87			99,452			20.25
No. 6 copper (26,250 c.m.)	104.34			44,344			33.78
3 x 12 galv. steel (35,643 c.m.)	36.39			18,013			12.13
1/4" galv. steel (48,223 c.m.)	52.50			34,649			17.50
9/32" galv. steel (62,200 c.m.)	85.05			71,782			28.35
7/16" galv. steel (153,200 c.m.)	32.10			70,331			
5/16" galv. steel (83,200 c.m.)	424.92			470,809			91.44
6 galv iron (41,000 c.m.)	130.38			80,325			43.46
Totals	9,463.81	301.14		9,898,710	377,911		2,080.98

NOTE—a.c.s-r = Aluminum cable, steel-reinforced. Weights include steel.

TRANSMISSION LINES

(Excluding High-Voltage Lines)

WEIGHT OF CONDUCTORS

single-circuit lines		Miles of double-circuit lines			Miles of three-circuit lines			Miles of four-circuit lines			Total circuit miles of one, two-, three-, four-circuit lines completed to Oct. 31, 1930
Completed Oct. 31, 1929 to Oct. 31, 1930	Under construction Oct. 31, 1930	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Under construction Oct. 31, 1930	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Under construction Oct. 31, 1930	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Under construction Oct. 31, 1930	
......	......	11.86	......	......	......	......	......	......	......	......	14.36
......	......	35.11	......	......	......	......	......	......	......	......	36.62
......	......	1.21	......	......	......	......	......	......	......	......	1.21
......	......	......	......	......	4.70	......	......	......	......	......	4.70
......	......	5.46	......	......	......	......	......	......	......	......	6.97
......	......	36.60	......	......	......	......	......	......	......	......	220.49
......	......	206.06	......	......	......	......	......	......	......	......	457.00
......	......	14.26	......	......	......	......	......	......	......	......	46.94
5.31	......	37.81	......	......	......	......	......	......	......	......	204.45
......	......	3.65	......	......	......	......	......	......	......	......	110.56
......	......	......	......	......	......	......	......	......	......	......	34.60
......	......	......	......	......	......	......	......	......	......	......	0.70
9.60	......	0.60	1.22	......	......	......	......	......	......	......	53.78
......	......	......	......	......	......	......	......	......	......	......	77.78
21.65	......	12.17	......	......	......	......	......	......	......	......	132.33
30.15	......	11.15	......	......	......	......	......	......	......	......	68.34
......	......	0.81	......	......	......	......	......	......	......	......	33.99
10.27	......	1.03	......	......	......	......	......	......	......	......	266.96
20.45	......	21.81	0.13	......	0.81	......	......	......	......	......	392.80
......	......	......	......	......	......	......	......	......	......	......	19.00
......	......	12.01	......	......	......	......	......	......	......	......	31.83
......	......	......	......	......	......	......	......	......	......	......	1.25
......	......	3.63	......	......	......	......	......	......	......	......	21.02
0.25	......	2.85	......	......	......	......	......	15.88	......	......	19.61
......	......	0.56	......	......	......	......	......	......	......	......	0.56
......	......	21.90	......	......	......	......	......	......	......	......	57.07
......	......	10.90	......	......	......	......	......	......	......	......	61.98
......	......	......	......	......	......	......	......	......	......	......	3.00
......	......	......	......	......	......	......	......	......	......	......	21.23
......	......	0.67	......	......	......	......	......	......	......	......	5.47
......	......	14.52	......	......	......	......	......	......	......	......	34.77
......	......	0.50	......	......	......	......	......	......	......	......	34.28
......	......	......	......	......	......	......	......	......	......	......	12.13
......	......	......	......	......	......	......	......	......	......	......	17.50
......	......	......	......	......	......	......	......	......	......	......	28.35
......	......	5.35	......	......	......	......	......	......	......	......	5.35
......	......	25.10	......	......	......	......	......	......	......	......	116.54
......	......	......	......	......	......	......	......	......	......	......	43.46
97.68	......	497.58	1.35	......	5.51	......	......	15.88	......	......	2,698.98

This sheet is based on route and wire miles.

TELEPHONE

ERECTED ON WOOD-POLE LINES

GAUGE, LENGTH AND WEIGHT OF ALUMINUM,

Size and material	Wire miles of conductors				Weight in	
	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Under construction Oct. 31, 1930	Completed to Oct. 31, 1930	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930
No. 9 B. & S.G. copper	353.22	44.78	....	398.00	73,823	9,359
No. 10 B. & S.G. copper	189.04	....	....	189.04	31,381	....
No. 8 B. & S.G. c-c steel	181.14	....	....	181.14	44,379	....
No. 10 B. & S.G. c-c steel	934.08	3.96	....	938.04	143,848	610
No. 17 B. & S.G. c-c steel	8.12	....	....	8.12	244	....
No. 6 B.W.G. galv. iron	15.20	....	....	15.20	8,710	....
No. 8 B.W.G. galv. iron	1.42	....	....	1.42	537	....
No. 9 B.W.G. galv. iron	1,739.04	....	....	1,739.04	530,407	....
No. 10 B.W.G. galv. iron	73.08	....	....	73.08	18,270	....
No. 12 B.W.G. galv. iron	111.54	....	....	111.54	18,404	....
No. 6 a.c.s-r	653.32	95.22	....	748.54	125,437	18,282
3 x .0661 alum. and 4 x .0661 steel	16.72	26.88	....	43.60	5,233	8,413
3 x 12 galv. steel	88.88	....	....	88.88	43,729	....
3 x 13 galv. steel	64.96	....	....	64.96	24,685	....
Totals	4,429.76	170.84	....	4,600.60	1,069,087	36,664

Note—For telephone lines generally on wood poles and serving 220,000 and 110,000 power lines see separate table.

P-i. l-c cable = Paper insulated, lead-covered cable.

c-c steel = Copper-clad steel. a.c.s-r = Aluminum cable, steel reinforced.

LINES

CARRYING POWER CONDUCTORS

COPPER-CLAD STEEL AND GALVANIZED IRON WIRE

pounds		Miles of single-circuit lines			Miles of double-circuit lines			
Under construction Oct. 31, 1930	Completed to Oct. 31, 1930	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Under construction Oct. 31, 1930	Completed to Oct. 31, 1929	Completed Oct. 31, 1929 to Oct. 31, 1930	Under construction Oct. 31, 1930	Single and double-circuit totals completed to Oct. 31, 1930
....	83,182	165.35	22.39	....	5.63	....	....	193.37
....	31,381	94.52	....	....	....	....	....	94.52
....	44,379	90.57	....	....	....	....	....	90.57
....	144,458	467.04	1.98	....	....	....	....	469.02
....	244	4.06	....	....	....	....	....	4.06
....	8,710	7.60	....	....	....	....	....	7.60
....	537	0.71	....	....	....	....	....	0.71
....	530,407	869.52	....	....	....	....	....	869.52
....	18,270	36.54	....	....	....	....	....	36.54
....	18,404	55.77	....	....	....	....	....	55.77
....	143,719	230.02	47.61	....	48.32	....	....	325.95
....	13,646	8.36	13.44	....	....	....	....	21.80
....	43,729	44.44	....	....	....	....	....	44.44
....	24,685	32.48	....	....	....	....	....	32.48
....	1,105,751	2,106.98	85.42	....	53.95	....	....	2,246.35

B. & S.G. = Browne & Sharpe Gauge.
B.W.G. = Birmingham wire gauge.

APPENDIX III

DISTRIBUTION LINES AND SYSTEMS

Summaries of Data respecting Rural Distribution Systems, Distribution Feeders, Metering Stations, Distributing Stations and Distributing Systems constructed by the Hydro-Electric Power Commission.

Below is shown in tabular and descriptive form the work carried on under the supervision of the Distribution section of the Electrical Engineering department during the year ended October 31, 1930.

This work includes the construction of rural distribution systems, the installation of feeders to supply urban municipalities and the construction of metering equipments.

Work in connection with distribution systems was done by the Commission for certain municipalities, private companies, etc., at the request and at the expense of the parties concerned.

SUMMARY OF CONSTRUCTION IN RURAL POWER DISTRICTS

System	At October 31, 1929		At October 31, 1930	
	Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
Niagara system	4,058.9	29,412	5,196.7	34,723
Georgian Bay system—				
Severn district	64.5	848	177.8	1,471
Eugenia district	52.3	276	62.5	320
Wasdells district	110.3	589	171.9	1,002
Muskoka district	14.8	122	28.2	180
Bala district	....	....	15.4	99
Eastern Ontario system—				
Central Ontario district	288.8	2,671	592.0	4,009
St. Lawrence district	126.3	797	300.7	1,880
Rideau district	37.8	186	51.2	272
Madawaska district	....	....	9.1	8
Ottawa district	77.5	516	116.5	626
Northern Ontario system—				
Nipissing district	4.5	167	4.5	192
Totals	4,835.7	35,584	6,726.5	44,782

DETAILS OF CONSTRUCTION IN RURAL POWER DISTRICTS

Rural power district	Property number	At October 31, 1929		At October 31, 1930	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
NIAGARA SYSTEM					
Acton	N5D1	1.8	7	3.0	7
Ailsa Craig	N4D7	....	....	0.6	2
Alvinston	N18D9	2.5	4	2.5	4
Amherstburg	N15D3	53.0	465	55.5	516
Aylmer	N11D2	81.0	458	96.3	521
Ayr	N12D4	9.7	46	20.3	66
Baden	N7D1	53.7	260	79.6	337
Beamsville	N1D4	105.0	724	129.0	829
Belle River	N15D2	36.5	295	43.4	327
Blenheim	N14D3	42.0	245	46.8	262
Bond Lake	N3D3	87.1	958	121.8	1,143
Bothwell	N14D10	30.0	99	30.8	110
Brampton	N13D2	47.5	156	48.2	192
Brant	N12D1	71.0	378	80.9	432
Brigden	N18D8	22.9	72	31.4	96
Burford	N12D2	15.7	122	34.5	180
Caledonia	N2D5	46.0	231	67.0	314
Chatham	N14D1	106.0	646	120.0	708
Chippawa	N1D7	12.2	113	12.2	119
Clinton	N8D11	45.1	196	50.0	287
Delaware	N4D3	90.9	497	116.3	591
Dorchester	N4D1	95.8	486	104.9	529
Dresden	N14D12	1.8	13	20.0	63
Drumbo	N12D5	24.5	177	40.5	215
Dundas	N2D1	69.1	494	85.8	595
Dunnville	N1D9	1.2	12	6.7	40
Dutton	N11D3	25.2	99	30.7	134
Elmira	N7D3	5.2	35	16.4	66
Elora	N5D4	10.0	132	25.0	158
Essex	N15D7	61.5	317	73.6	397
Exeter	N4D6	54.7	452	60.0	504
Forest	N8D6	9.7	30	22.8	70
Galt	N6D2	22.7	200	26.7	233
Georgetown	N5D2	32.7	157	38.2	186
Goderich	N8D2	4.2	37	22.0	100
Grantham	N1D2	48.2	468	47.5(*a*)	473
Guelph	N5D3	56.5	222	81.4	460
Haldimand	N2D8	11.7	78	28.9	162
Harriston	N8D5	2.2	7	7.0	37
Harrow	N15D4	48.0	429	64.4	516
Ingersoll	N10D3	114.9	420	147.6	522
Jordan	N1D3	24.5	228	29.2	258
Keswick	N3D5	21.0	668	31.4	754
Kingsville	N15D5	95.6	1,048	114.3	1,217
Listowel	N8D8	27.2	151	41.6	216

(*a*) 2.5 miles transferred to Jordan rural power district.

DETAILS OF CONSTRUCTION IN RURAL POWER DISTRICTS—Continued

Rural power district	Property number	At October 31, 1929		At October 31, 1930	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
NIAGARA SYSTEM—Continued					
London	N4D2	150.5	1,612	177.0	1,798
Lucan	N4D5	27.3	100	32.7	112
Lynden	N2D2	41.0	200	42.1	200
Markham	N3D1	76.0	515	88.9	632
Merlin	N14D15	37.6	156	50.4	181
Milton	N13D3	34.0	214	37.6	240
Milverton	N8D9	15.0	73	19.1	92
Mitchell	N8D7	31.5	191	52.5	292
Newmarket	N3D4	21.0	206	40.8	250
Niagara	N1D1	41.0	239	43.3	259
Norwich	N10D1	76.9	364	85.6	397
Oil Springs	N18D3	12.8	86	14.9	91
Palmerston	N8D6	0.2	10	23.8	69
Petrolia	N18D5	3.7	22	13.7	54
Preston	N6D1	110.5	701	124.9	842
Ridgetown	N14D2	88.8	580	93.2	634
St. Marys	N9D1	64.7	219	90.0	266
St. Jacobs	N7D2	30.5	220	54.9	298
St. Thomas	N11D1	116.5	911	132.0	977
Saltfleet	N17D1	77.1	883	81.0	952
Sandwich	N15D1	109.6	1,921	119.3	2,048
Sarnia	N18D4	78.5	974	83.0	1,033
Scarboro	N3D2	47.2	348	62.9	464
Seaforth	N8D10	6.0	113	7.3	124
Simcoe	N12D6	29.5	179	36.6	226
Stamford	N1D6	10.6	282	12.2	287
Stratford	N8D4	30.5	202	34.1	231
Strathroy	N4D4	11.7	69	62.2	169
Streetsville	N13D1	80.0	281	90.9	349
Tavistock	N8D1	56.0	220	68.5	269
Thamesville	N14D11	22.1	132	47.0	183
Tilbury	N14D14	24.4	114	33.9	147
Tillsonburg	N10D4	90.9	467	101.0	516
Wallaceburg	N14D13	50.9	384	74.5	421
Walsingham	N12D7	17.0	112	44.5	235
Walton	N8D3	22.5	164	28.4	173
Waterdown	N2D3	27.2	267	31.2	311
Waterford	N12D3	32.6	129	48.7	198
Watford	N18D7	1.3	0	17.0	49
Welland	N1D5	166.0	1,955	238.1	2,224
Woodbridge	N16D1	147.8	718	180.5	898
Woodstock	N10D2	113.0	547	119.8	584

DETAILS OF CONSTRUCTION IN RURAL POWER DISTRICTS—Continued

Rural power district	Property number	At October 31, 1929		At October 31, 1930	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
GEORGIAN BAY SYSTEM					
SEVERN DISTRICT					
Alliston	S32D1	6.5	0	20.0	120
Barrie	S4D1	13.3	114	35.3	274
Beeton	S33D1	0.3	1	0.3	1
Bradford	S37D1	0.7	3	0.7	3
Buckskin	S24D1	0.9	13	0.9	15
Creemore	S10D2	....	....	8.8	0
Elmvale	S7D1	0.0	22	23.3	107
Hawkestone	S9D1	....	....	21.9	104
Innisfil	S31D1	21.6	214	26.0	262
Medonte	S18D1	....	....	2.2	18
Midland	S1D1	....	....	9.7	34
Nottawasaga	S5D1	7.8	85	7.8	87
Thornton	S36D1	....	....	7.5	31
Wasaga Beach*	S10D1	13.4	396	13.4	415
EUGENIA DISTRICT					
Arthur	E13D2	....	....	0.4	3
Chatsworth	E3D1	0.0	19	0.0	21
Flesherton	E1D1	1.6	17	1.6	32
Holstein	E7D1	....	....	0.0	1
Lucknow	E24D1	0.1	2	0.1	2
Markdale	E1D2	1.0	2	1.0	2
Meaford	E14D1	0.8	2	0.8	2
Neustadt	E8D1	0.3	1	0.3	1
Orangeville	E12D1	8.7	27	10.9	27
Ripley	E24D1	0.0	2	0.4	2
Shelburne	E10D1	2.4	10	2.4	11
Tara	E15D1	21.5	86	23.5	98
Walkerton Quarry	E26D1	1.6	5	1.6	5
Wroxeter	E23D1	14.3	103	19.5	113
WASDELLS DISTRICT					
Beaverton	W2D1	....	....	2.8	21
Cannington No. 1	W3D1	3.8	22	3.8	24
Cannington No. 2	W3D2	4.2	20	4.7	22
Georgina	W2D2	9.5	81	10.0	85
Mariposa	W9D1	30.4	182	42.8	277
Port Perry	W12D1	24.6	84	42.6	260
Sparrow Lake	W1D1	18.6	132	18.6	144
Uxbridge	W11D1	19.2	68	46.6	169
MUSKOKA DISTRICT					
Beaumaris	M7D1	14.8	122	18.5	131
Utterson	M8D1	....	....	9.7	49
BALA DISTRICT					
Bala	GB13D1	....	....	15.4	99

*Was Stayner R.P.D.

DETAILS OF CONSTRUCTION IN RURAL POWER DISTRICTS—Continued

Rural power district	Property number	At October 31, 1929		At October 31, 1930	
		Miles of primary line constructed	Number of consumers receiving service	Miles of primary line constructed	Number of consumers receiving service
EASTERN ONTARIO SYSTEM					
CENTRAL ONTARIO DISTRICT					
Belleville	C38D1	42.0	357	63.1	531
Bowmanville	C23D1	1.6	7	16.7	26
Brighton	C6D1	....	....	5.5	30
Campbellford	C11D1	15.4	51	17.5	60
Cobourg	C13D1	57.0	263	62.0	275
Colborne	C7D1	10.0	72	21.5	111
Deseronto	C42D1	....	....	0.3	1
Kingston	C44D1	26.8	94	58.7	301
Lakefield	C18D1	0.0	1	0.0	1
Lindsay	C29D1	....	....	0.6	2
Madoc	C33D1	....	....	....	....
Marmora	C47D1	....	....	....	....
Millbrook	C25D1	....	....	11.7	61
Napanee	C43D1	9.75	11	47.5	128
Newcastle	C22D1	13.5	28	18.6	106
Norwood	C31D1	3.5	30	3.9	38
Oshawa	C24D1	53.8	643	60.6	743
Peterborough	C20D1	30.0	804	47.0	874
Pickering	C24D2	12.3	141	13.8	174
Port Hope	C16D1	10.0	34	16.7	88
Stirling	C35D1	1.2	3	26.7	100
Trenton	C3D1	1.5	26	39.7	171
Warkworth	C49D1	....	....	0.4	3
Wellington	C45D1	0.5	8	59.5	185
ST. LAWRENCE DISTRICT					
Alexandria	L15D1	2.1	0	8.1	48
Brockville	L3D1	37.6	236	69.3	468
Chesterville	L5D1	33.6	235	46.5	368
Iroquois	L9D1	....	....	80.0	391
Martintown	L13D1	11.5	98	16.3	112
Maxville	L14D2	0.0	2	40.3(*a*)	269(*a*)
Prescott	L2D1	25.4	125	29.5	164
Williamsburg	L7D1	5.6	18	10.7	60
RIDEAU DISTRICT					
Smiths Falls	H3D1	37.8	186	48.7	272
Kemptville	H9D1	....	....	2.5	0
MADAWASKA DISTRICT					
Arnprior	QM10D1	....	....	3.6	0
Renfrew	QM16D1	....	....	5.5	8
OTTAWA DISTRICT					
Nepean	T1D1	77.5	516	116.5	626
NORTHERN ONTARIO SYSTEM					
NIPISSING DISTRICT					
North Bay	Z4D1	4.5	167	4.5	192

(*a*) 10.5 miles and 83 consumers transferred from Apple Hill R.P.D.

DISTRIBUTION FEEDER CONSTRUCTION

During the year ending October 31, 1930, the following work was carried on in connection with distribution feeders.

N 248 x 14—Dundas R.P.D. Distributing Station to Ancaster.

Capital in this line was transferred from N.C.R. (Ancaster Twp.) as of January 1, 1930.

N 352 x 21—Mount Joy Distributing Station to Stouffville.

Three Booster transformers were erected on this line and placed in service on November 29, 1929.

N 465 x 3—Glendale Distributing Station to Lambeth.

A new 4,000/2,300-volt feeder line was strung on N 465 x 63 transmission line poles a distance of 3.5 miles, and 1.30 miles of 2,300-volt, single-phase rural line was removed and existing rural transformers connected to the feeder line. Work was completed October 30, 1930.

N 1419 x 21—Newbury Junction to Wardsville.

This line was changed from single phase to three phase and placed in service on October 26, 1930.

N 1434 x 91—Blenheim Distributing Station to Erieau.

This line was changed from two phases to three phase and placed in service on December 14, 1929.

M 8 x 802—Utterson Distributing Station to Windermere.

A new 8,000/4,600-volt line was constructed to supply the village of Windermere from the Utterson distributing station. The line is 12.5 miles long and was placed in service June 30, 1930.

GB 13 x 1362—Bala Distributing Station to Butterfly Junction.

This line was reconditioned. Work was completed on May 31, 1930.

GB 1362 x 32—Butterfly Junction to Port Carling.

This line was reconditioned. Work was completed on June 21, 1930.

GB 1362 x 36—Butterfly Junction to MacTier.

This line was reconditioned. Work was completed on June 21, 1930.

STATIONS CONSTRUCTED

NIAGARA SYSTEM

Station	Property number	Date work was completed	Transforming or measuring power for
Goderich R.P.D.	N8D32	Sept. 25, 1930	Goderich R.P.D. (Part).
Wallaceburg R.P.D.	N14D43	May 31, 1930	Wallaceburg R.P.D.
Clifford	N844	May 8, 1930	Clifford.
Campbellville[a]	N1347	Mar. 15, 1930	Campbellville.
Newbury[f]	N1449	Oct. 29, 1930	Newbury.
Glencoe[b]	N1450	Oct. 29, 1930	Glencoe.
Wardsville[c]	N1451	Oct. 26, 1930	Wardsville.
Dominion Petroleum Co.[d]	N1459	Oct. 26, 1930	Dominion Petroleum Co.
Erieau[e]	N1492	Apr. 1, 1930	Erieau.
Tecumseh	N1536	Apr. 12, 1930	Tecumseh.

a Change from single to three phase. *b* Change from 4,000/2,300-volt to 8,000/4,600-volt. *c* Change from 2,300-volt to 4,600-volt. *d* Three 5 k.v.a. 4,600/550-volt transformers replace customer's transformers. *e* Change from 2 to 3 phase. *f* Change from 2,300-volt to 4,600-volt.

GEORGIAN BAY SYSTEM

Station	Property number	Date work was completed	Transforming or measuring power for
SEVERN DISTRICT			
Hawkestone R.P.D.	S9D31	Aug. 1, 1930	Hawkestone R.P.D.
Alliston R.P.D.	S32D31	Jan. 21, 1930	Alliston R.P.D. (Part).
Alliston R.P.D.	S32D31	Mar. 4, 1930	Alliston R.P.D. (Part).
Thornton R.P.D.	S36D31	Oct. 16, 1930	Thornton R.P.D.
WASDELLS DISTRICT			
Port Perry R.P.D.	W12D32	Jan. 15, 1930	Port Perry R.P.D. (Part).
MUSKOKA DISTRICT			
Windermere	N832	Aug. 26, 1930	Windermere.
BALA DISTRICT			
Hamills	GB15	July 11, 1930	Bala R.P.D.

EASTERN ONTARIO SYSTEM

Station	Property number	Date work was completed	Transforming or measuring power for
CENTRAL ONTARIO DISTRICT			
Trenton R.P.D.	C3D31	Oct. 18, 1930	Trenton R.P.D. (Part).
Peterborough R.P.D.[a]	C20D31	Jan. 17, 1930	Peterborough R.P.D. (Part).
Peterborough R.P.D.[b]	C20D31	June 12, 1930	Peterborough R.P.D. (Part).
Newcastle R.P.D.	C22D31	Apr. 22, 1930	Newcastle R.P.D. (Part).
Newcastle R.P.D.	C22D31	Sept. 6, 1930	Newcastle R.P.D. (Part).
Millbrook R.P.D.	C25D31	July 4, 1930	Millbrook R.P.D. (Part).
Newburgh	C4332	Aug. 30, 1930	Newburgh.
Strathcona Paper Co.[c]	C4333	Nov. 1, 1929	Strathcona Paper Co.
ST. LAWRENCE DISTRICT			
Chesterville R.P.D.	L5D31	Mar. 16, 1930	Chesterville R.P.D. (Part).
Maxville R.P.D.	L14D32	Feb. 8, 1930	Maxville R.P.D. (Part).
Alexandria R.P.D.	L15D31	Feb. 11, 1930	Alexandria R.P.D. (Part).

a 3–75 K.v.a. 2,300/4,600-volt transformers installed.
b 3–100 K.v.a. 2,300/4,600-volt transformers installed.
c Transfer from Newburgh distribution system.

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*The Statements "A," "B," "C," "D" and "E," appertaining to the local municipal electric utilities—and given in Section X of the Report—are detailed individually for Acton, but in the case of other municipalities are grouped under the sub-heading of "Municipal Accounts" with reference to Statements "A" and "B," and under the sub-heading "Statements" with reference to Statements "C," "D" and "E."

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  Municipal Accounts........A, 291; B, 333
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  Miles of Line, Consumers and Rates... 76
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  Credit or Charge Account............194
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  Credit or Charge Account............214
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  Sinking Fund......................198
  Municipal Accounts........A, 291; B, 333
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  Credit or Charge Account............190
  Sinking Fund......................198
  Municipal Accounts........A, 291; B, 333
  Statements.........C, 365; D, 382; E, 392

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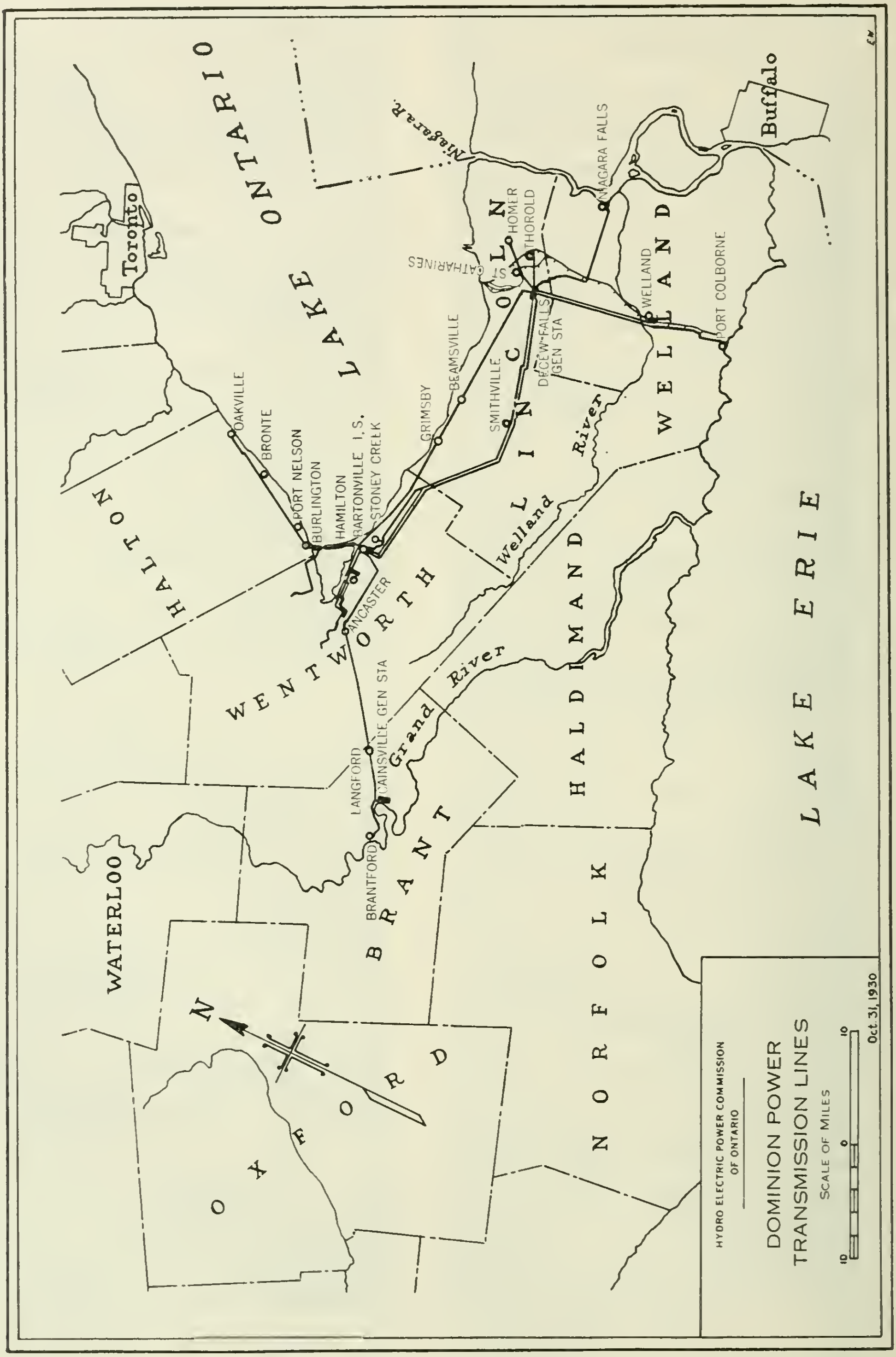
  Cost of Power....................166
  Credit or Charge Account............190
  Sinking Fund......................198
  Municipal Accounts........A, 292; B, 334
  Statements.........C, 365; D, 382; E, 398



HYDRO ELECTRIC POWER COMMISSION OF ONTARIO

DOMINION POWER TRANSMISSION LINES

Oct. 31, 1930

PROVINCIAL AUDITOR'S REPORT

1929-30

Prepared pursuant to the provisions of an Order-in-Council dated
the 28th day of October, 1909

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO

SESSIONAL PAPER No. 27

ONTARIO

TORONTO
Printed and Published by Herbert H. Ball, Printer to the King's Most Excellent Majesty
1931

To The Honourable W. D. Ross,
Lieutenant-Governor of the Province of Ontario.

May It Please Your Honour:

The undersigned has the honour to present to Your Honour the Report of the Provincial Auditor pursuant to the provisions of R.S.O. 1927, chap. 25, sec. 13, subsec. 2, of the Audit Act.

Respectfully submitted,

E. A. Dunlop,
Treasurer of Ontario.

Treasury Department, Ontario,
Toronto, March 9th, 1931.

PROVINCIAL AUDITOR'S OFFICE,
Toronto, March 9th, 1931.

SIR: I have the honour to submit for the information of the Legislative Assembly, pursuant to the provisions of an Order-in-Council dated 28th October, 1909, as provided by R.S.O. 1927, chap. 25, subsection 2 of section 31, and pursuant to the provisions of subsection 2 of section 13, and sections 27 and 28 of the Audit Act:

(A) Introduction and Miscellaneous Statements.
(B) Legal Opinions.
(C) Statement of Special Warrants Issued.
(D) Statement of Treasury Board Minutes.

Respectfully submitted,

G. A. BROWN,
Provincial Auditor.

HON. E. A. DUNLOP,
Treasurer of Ontario.

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A

INTRODUCTION AND MISCELLANEOUS STATEMENTS

Report of the Provincial Auditor

INTRODUCTION

I have the honour to submit my report for the fiscal year ended October 31st, 1930, pursuant to the provisions of subsection 2 of section 13 and sections 27 and 28 of the Audit Act, R.S.O. 1927, chap. 25.

Public Accounts

The Public Accounts for the fiscal year ended October 31st, 1930, although compiled as in former years, bear certain changes in accounting, in accordance with the announcement by the Provincial Treasurer in his Budget speech of last session which in effect was that Expenditure refunds would be eliminated from Revenue and applied in the reduction of Expenditure.

For the information of Honourable Members of the Legislature the statement following gives a brief resumé of the deductions from Revenue and Expenditure.

The Comparative Statements of Revenue and Expenditure as published in the Public Accounts (see pages 14 and 15) have been adjusted for the years 1923 to 1929 inclusive, in order to be applicable for comparison purposes with the System as adopted in 1930.

Revenue

The auditing of Receipts in the various Departments has been vigorously applied during the year and it is encouraging to note that the accounting records and books installed upon recommendations by members of the Auditor's staff, accounts for the systematic collection of revenue which is being carried on.

Stores

A thorough audit of the Stores at the several Ontario Hospitals was made last year and a system installed for the guidance of each storekeeper which no doubt will be of much benefit to the Province.

General Remarks

My appreciation is extended to every member of the Audit Staff for their efficient service and co-operation in carrying on the general work of the office.

G. A. Brown,
Provincial Auditor.

EXPENDITURE REFUNDS ELIMINATED FROM REVENUE AND APPLIED IN REDUCTION OF EXPENDITURE

Fiscal Years 1929 and 1930

		1929		1930
Ordinary Account:				
Prime Minister—Sale of Stationery, etc.		$ 18,696.91		$ 20,112.78
Attorney-General—Public Trustee.—Refund of Expenses		53,195.75		64,842.20
Lands and Forests—Forest Ranging—Scalers' Wages, etc.		101,414.02		78,665.68
Public Works—Heating		2,104.48		5,592.47
Public Highways—Maintenance of Highways:				
Repayments—Counties	$ 282,081.43		$ 281,814.10	
" Suburban areas	63,617.01		40,918.90	
Special materials purchased	211,123.17		80,979.01	
Sale of materials	20,322.24		9,781.32	
Damages—Guard rails and fences	308.46		344.44	
Contracts	168.00		....	
Freight and Demurrage	2,437.95		2,143.27	
Sidings	2,419.55		....	
Surface Treatment	772.53		466.40	
		$ 583,250.34		$ 416,447.44
Labour—Mothers' Allowances and Old Age Pensions repayable to Province:				
Mothers' Allowances	$1,098,075.95		$1,046,842.75	
Old Age Pensions	....		3,664,227.47	
		$1,098,075.95		$ 4,711,070.22
Treasury—Savings Offices—Refund of Expenses		222,999.21		241,493.06
Agriculture—Agricultural Development Board, Refund of Expenses		160,847.73		177,311.46
Interest on Public Debt:				
Accrued Interest on Loans issued	$ 95,856.26		$ 213,493.44	
Hydro-Interest on advances	8,200,597.75		8,772,290.71	
		8,296,454.01		8,985,784.15
Total—Ordinary Account		$10,537,038.40		$14,701,319.46
Capital Account:				
Public Works—Bridges and Dams—Repayments		$ 1,842.37		$ 13,483.63
Public Highways—Construction of Highways—				
Repayments—Counties	$1,321,884.61		$2,184,402.62	
" Suburban areas	504,570.13		742,807.19	
Special material purchased	50,458.55		163,401.51	
Sale of Materials	1,512.10		35,464.52	
Installing Tile Drains	3,811.39		5,192.53	
		1,882,236.78		3,131,268.37
Total—Capital Account		$1,884,079.15		$ 3,144,752.00
Total—Ordinary and Capital		$12,421,117.55		$17,846,071.46

MISCELLANEOUS STATEMENTS

STATEMENT SHOWING SOURCES OF ORDINARY REVENUE

Fiscal Year Ending October 31st, 1930

GRANTS, SUBSIDIES AND SUBVENTIONS		$ 2,755,435 86
Dominion Government—Annual Subsidy, Health, Employment Offices, etc.		
REVENUE DERIVED FROM INDIVIDUALS AND CORPORATIONS RECEIVING THE BENEFIT OF PROVINCIAL SERVICES, SPECIAL PRIVILEGES OR THE USE OF NATURAL RESOURCES AND PROPERTIES AND PROFITS FROM TRADING, ETC.:		
Taxation	$17,064,771 39	
Gasoline, Mines, Lands, Corporations, Race Tracks (betting), Amusements, and Stock Transfers.		
Licenses	7,728,754 65	
Motor Vehicles, Liquor Permits, Hunting and Fishing, Insurance, Loan and Trust Companies, Mines, Race Tracks, Theatres, etc.		
Fees	2,682,304 55	
Local Registrars, Police Magistrates, Crown Attorneys, etc.; Fire Marshal, Mine Recording, Companies and Brokers Registration, Examination Fees, etc.; Land Transfers, Motor Vehicle Transfers, etc.		
Fines and Penalties	425,054 47	
Profits from Trading Activities	7,500,000 00	
Liquor Control Board—Profits, Fines, Sale of Confiscated Liquor, etc.		
Succession Duties	11,229,438 83	
Natural Resources, Sale of Produce, Maintenance of Patients, etc	4,832,363 35	
Interest on Loans—Housing, Agriculture and Settlers, Temiskaming and Northern Ontario Railway, etc.	2,387,873 50	
Miscellaneous	203,884 47	
Ontario Gazette, sale of Government publications, and casual revenue.		
Refunds of Expenditure	533,410 14	
Forest Protection and Miscellaneous.		
		54,587,855 35
		$57,343,291 21

PROVINCIAL DEBT

Statement Showing Investment Thereof as at October 31st, 1930

FUNDED DEBT:		
Stock and Debentures outstanding		$398,821,344 54
Certificates and Annuities		1,671,533 72
		$400,492,878 26
Deduct—Sinking Fund Investments—		
Registered Stocks	$2,500,897 02	
"AM"—Sinking Fund	305,000 00	
Hydro-Electric Power Commission—Ontario bonds deposited with Treasury	1,751,000 00	
		4,556,897 02
Total Funded Debt		$395,935,981 24
UNFUNDED DEBT:		
Treasury Bills	$38,940,000 00	
Savings Office Deposits	23,307,118 69	
Special Funds, Accounts Payable and Accrued Interest	13,438,252 18	
		75,685,370 87
Gross Debt		$471,621,352 11
INVESTMENT THEREOF:		
Revenue Producing and Realizable Assets—		
Hydro-Electric Power Commission—advances	$176,799,442 30	
Less—Sinking Fund Investments deposited	1,751,000 00	
	$175,048,442 30	
Temiskaming and Northern Ontario Railway—advances	30,207,934 92	
Farm, Housing and Settlers' Loans	38,956,866 49	
Cash and Accounts Receivable	14,629,826 98	
		258,843,070 69
Revenue Producing but not Realizable Assets—		
Roads and Highways	$146,419,806 75	
Niagara Parks	2,049,702 16	
Common School Fund—Trust Fund; Ontario and Quebec	1,481,800 92	
		149,951,309 83
Total Revenue Producing Assets		$408,794,380 52
Non-Revenue Producing Assets—		
Provincial buildings and public works	$45,036,143 80	
Plant, stores and equipment	1,316,249 93	
Deferred assets	99,313 78	
		46,451,707 51
Other Assets—		
Capitalized value of annual subsidy		52,852,233 60
Total Assets		$508,098,321 63
Excess of Assets over Liabilities		$ 36,476,969 52

HYDRO-ELECTRIC POWER COMMISSION OF ONTARIO

Amount Advanced to October 31st, 1930

	Hydro System		Central Ontario System		Total	
	$	c.	$	c.	$	c.
Amount advanced on Capital Account to October 31st, 1929	158,702,302	54	14,887,614	14	173,589,916	68
Advances during current year	16,164,439	00	453,500	00	16,617,939	00
	174,866,741	54	15,341,114	14	190,207,855	68
Less—						
Refund of Capital Advances not required	880,324	48	489,064	58	1,369,389	06
Sale of Properties	....		1,363,990	44	1,363,990	44
	880,324	48	1,853,055	02	2,733,379	50
Total advances to date	173,986,417	06	13,488,059	12	187,474,476	18
Repayments from Sinking Fund—(Debt Retirement Plan)—						
Fiscal Year 1926	4,812,000	00	....		4,812,000	00
1927	1,338,567	00	....		1,338,567	00
1928	1,417,529	45	....		1,417,529	45
1929	1,499,509	61	....		1,499,509	61
1930	1,607,427	82	....		1,607,427	82
Total repayments to date	10,675,033	88	....		10,675,033	88
Net amount advanced to October 31st, 1930	163,311,383	18	13,488,059	12	176,799,442	30
Province of Ontario Bonds representing Sinking Fund investments, deposited as security for repayment of advances	1,751,000	00	....		1,751,000	00

AGRICULTURAL DEVELOPMENT FINANCE ACT

R.S.O. 1927, Cap. 67

Statement Showing Deposits in Province of Ontario Savings Offices and Agricultural Loans as at October 31st, 1930

Deposits in Savings Offices by Public at October 31st, 1930		$23,307,118 69
Agricultural Development Finance Act—Investments—		
Agricultural Development Board—Debentures		$35,188,000 00
Less: Repayments to date		4,988,000 00
		$30,200,000 00
Farm Loans Act—Farm Loan Associations		143,535 52
" " " —Capital Stock in Associations		2,745 00
		$30,346,280 52
Savings Offices—		
Cash on hand and in banks	$541,061 97	
Accounts receivable	1,800 00	
Fixtures (depreciated value)	47,299 60	
		590,161 57
		$30,936,442 09

PUBLIC SERVICE SUPERANNUATION FUND

R.S.O. 1927, Cap. 16, Part III

As at October 31st, 1930

Balance at credit of Fund—November 1st, 1929				$2,711,111 55
Contributions to Fund—				
By Employees			$344,697 25	
By Government (Sec. 39)	$344,697 25			
Less Refunds (Sec. 36)	30,568 42			
		$314,128 83		
For Sheriffs (Sec. 60)		10,317 54		
			324,446 37	
Interest—				
On balance to credit of Fund at November 1st, 1929		$135,555 57		
On Employees' Contributions	$ 7,356 04			
On Government Contributions	7,356 04			
	$ 14,712 08			
Less interest allowed Government on payments	6,594 01			
		8,118 07		
			143,673 64	
				812,817 26
				$3,523,928 81
Deduct—				
Benefits Paid—				
Allowances to superannuates and beneficiaries			$291,650 13	
Lump sum payments, Secs. 34, 35 and 45			9,821 56	
Refunds under Sec. 36			30,568 42	
Interest on refunds and lump sum payments			4,953 00	
				336,993 11
Balance at Credit of Fund at October 31st, 1930				$3,186,935 70

Statement showing the remuneration paid to Officials in the Parliament Buildings who received pay from more than one source during the Fiscal Year 1929-30

Name	Page Pub.Acc.	Amount	Total
PRIME MINISTER'S DEPT.:		$ c.	$ c.
Leaman, I. V.	B 6	1,300 00	
"	D 33	50 00	1,350 00
Murray, K. A.	B 6	1,125 00	
"	D 33	50 00	1,175 00
Petley, Helen	B 7	1,700 00	
"	C 5	200 00	1,900 00
Stewart, Allan	B 6	1,700 00	
"	D 33	50 00	1,750 00
Wallis, Horace	B 6	5,200 00	
"	B 7	2,500 00	7,700 00
LEGISLATION:			
Baker, A. E.	C 6	2,400 00	
"	D 33	500 00	2,900 00
Berthon, C. S.	C 6	1,500 00	
"	D 33	300 00	1,800 00
Brown, R.	C 4	1,600 00	
"	D 33	350 00	
"	C 5	150 00	2,100 00
Dies, Roy	C 4	1,600 00	
"	C 5	100 00	1,700 00
Dymond, A. M.	C 6	5,400 00	
"	D 33	2,200 00	7,600 00
Harvey, W. G.	C 6	1,600 00	
"	C 5	200 00	
"	D 33	400 00	2,200 00
McCleary, D. H.	C 6	1,500 00	
"	D 33	300 00	1,800 00
Rice, M. B.	C 6	1,500 00	
"	D 33	350 00	1,850 00
Wilkinson, W. B.	C 6	4,319 34	
"	D 33	800 00	5,119 34
ATTORNEY-GENERAL'S DEPT.:			
Fitch, C. A.	D 20	3,300 00	
"	D 32	1,000 00	4,300 00
Haig, A. G.	D 20	1,031 25	
"	D 32	75 00	1,106 25
Humphries, I. A.	D 8	4,950 00	
"	D 32	500 00	5,450 00
Jones, H. S.	D 29	3,300 00	
"	D 29	500 00	3,800 00
Knight, D. J.	D 20	956 25	
"	D 32	75 00	1,031 25

Statement showing the remuneration paid to Officials in the Parliament Buildings who received pay from more than one source during the Fiscal Year 1929-30—Continued

Name	Page Pub.Acc.	Amount	Total
ATTORNEY-GENERAL'S DEPT.—Continued		$ c.	$ c.
Le Brock, F. J.	D 20	1,725 00	
"	D 32	75 00	
			1,800 00
Mainer, R. G.	D 29	3,150 00	
"	D 29	300 00	
			3,450 00
Middleton, A. N.	D 29	5,175 00	
"	D 26	216 66	
"	D 29	2,000 00	
			7,391 66
Mockler, E. A.	D 20	2,000 00	
"	D 32	200 00	
			2,200 00
Parkhill, M.	D 20	1,400 00	
"	D 32	200 00	
			1,600 00
EDUCATION DEPT.:			
Anglin, R. W.	F 45	4,600 00	
"	F 28	40 00	
			4,640 00
Beneteau, A. J.	F 24	4,800 00	
"	F 28	300 00	
"	F 28	250 00	
			5,350 00
Campbell, J. D.	F 24	4,200 00	
"	F 28	185 00	
			4,385 00
Cowles, J. P.	F 28	2,491 63	
"	F 24	2,108 37	
"	F 28	38 00	
			4,638 00
Croskery, R. A.	F 28	2,016 63	
"	F 14	2,708 34	
"	F 28	500 00	
			5,224 97
Dandeno, J. B.	F 24	4,000 00	
"	F 23	400 00	
"	F 28	476 40	
			4,876 40
De Laporte, Helen	F 24	2,400 00	
"	F 23	280 00	
			2,680 00
Hoag, J. P.	F 24	4,600 00	
"	F 28	250 00	
"	F 28	410 00	
			5,260 00
Karr, W. J.	F 24	5,000 00	
"	F 28	250 00	
"	F 28	382 60	
"	F 29	4,500 00	
			10,132 60
Kirkland, L. L.	F 24	1,300 00	
"	F 29	150 00	
			1,450 00
Levan, I. M.	F 45	4,600 00	
"	F 28	500 00	
			5,100 00
Merchant, F. W.	F 14	3,025 00	
"	F 14	3,791 66	
"	F 28	750 00	
"	F 29	6,000 00	
			13,566 66

Statement showing the remuneration paid to Officials in the Parliament Buildings who received pay from more than one source during the Fiscal Year 1929-30—Continued

Name	Page Pub.Acc.	Amount	Total
		$ c.	$ c.
EDUCATION DEPT.—Continued			
McDougall, J. B.	F 24	4,200 00	
"	F 28	741 00	
			4,941 00
Rogers, G. F.	F 14	2,708 33	
"	F 45	2,108 35	
"	F 28	500 00	
"	F 28	1,040 00	
			6,356 68
Rutherford, F. S.	F 50	4,200 00	
"	F 29	36 00	
"	F 51	500 00	
"	F 28	590 00	
			5,326 00
Sorsoliel, M. A.	F 52	4,000 00	
"	F 51	300 00	
"	F 29	295 00	
"	F 28	130 00	
			4,725 00
Thompson, Dorothy	F 47	2,200 00	
"	F 28	150 00	
			2,350 00
Walker, D.	F 29	5,000 00	
"	F 28	750 00	
"	F 28	215 00	
			5,965 00
Walton, G.	F 14	2,000 00	
"	F 14	72 08	
			2,072 08
LANDS AND FORESTS DEPT.:			
Rorke, L. V.	G 26	5,200 00	
"	G 11	1,000 00	
			6,200 00
PUBLIC WORKS DEPT.:			
Bain, W.	K 17	1,350 00	
"	C 5	100 00	
			1,450 00
Bennett, J.	K 18	1,600 00	
"	C 5	100 00	
			1,700 00
Burns, Thos.	K 18	2,000 00	
"	D 33	75 00	
			2,075 00
Campbell, W. J.	K 17	1,600 00	
"	C 5	100 00	
			1,700 00
Cordell, T.	K 18	1,400 00	
"	C 5	100 00	
			1,500 00
Lowe, S.	K 18	1,600 00	
"	C 5	100 00	
			1,700 00
Sexsmith, E. M.	K 18	1,600 00	
"	C 5	100 00	
			1,700 00
HEALTH DEPT.:			
Baycroft, B.	M 10	996 15	
"	M 11	60 00	
			1,056 15
Beck, E. C.	M 10	1,750 00	
"	M 11	101 00	
			1,851 00

Statement showing the remuneration paid to Officials in the Parliament Buildings who received pay from more than one source during the Fiscal Year 1929-30—Continued

Name	Page Pub.Acc.	Amount	Total
		$ c.	$ c.
HEALTH DEPT.—Continued			
Butterworth, E.	M 10	1,300 00	
“	M 11	352 50	1,652 50
Brydson, L.	M 10	975 00	
“	M 11	190 00	1,165 00
Chew, A. M.	M 10	1,200 00	
“	M 11	4 00	1,204 00
Cogle, J.	M 11	1,162 50	
“	M 11	193 00	1,355 50
Crossley, V.	M 10	1,700 00	
“	M 11	50 00	1,750 00
Fasken, J. E.	M 10	2,700 00	
“	M 11	82 00	2,782 00
Fenton, W.	M 10	1,600 00	
“	M 11	186 00	1,786 00
Hollinger, R. W.	M 10	1,600 00	
“	M 11	115 00	1,715 00
Jamieson, Ella	M 5	1,900 00	
“	F 23	200 00	2,100 00
Jewell, E.	M 10	1,500 00	
“	M 11	184 00	1,684 00
McClure, A. D.	M 10	1,925 00	
“	M 11	230 35	2,155 35
McNabb, Dr. A. L.	M 10	4,000 00	
“	M 11	103 00	4,103 00
Phair, Dr. J. T.	M 5	4,400 00	
“	F 23	200 00	4,600 00
Ward, M. D.	M 10	1,500 00	
“	M 11	66 50	1,566 50
Wilson, Dr. W. M.	M 11	1,749 96	
“	M 11	34 00	1,783 96
PROVINCIAL TREASURER'S DEPT.:			
Regan, R. T.	P 8	2,850 00	
“	C 4	150 00	3,000 00
PROVINCIAL AUDITOR'S OFFICE:			
Jennings, T. R.	Q 3	4,200 00	
“	S 37	800 00	5,000 00
PROVINCIAL SECRETARY'S DEPT.:			
Lavell, Dr. A. E.	R 12	3,150 00	
“	R 12	515 00	3,665 00

Statement showing the remuneration paid to Officials in the Parliament Buildings who received pay from more than one source during the Fiscal Year 1929-30—Continued

Name	Page Pub. Acc.	Amount	Total
		$ c.	$ c.
AGRICULTURE DEPT.:			
Elliott, G. A	S 38	3,300 00	
"	S 37	200 00	
			3,500 00
Roadhouse, W. B	S 12	2,699 99	
"	S 36	3,000 01	
"	S 37	1,500 00	
"	S 37	2,000 00	
			9,200 00

B

LEGAL OPINIONS

LEGAL OPINION

Re Game and Fisheries Refund

Provincial Auditor's Office,
Toronto, October 9th, 1930.

Memorandum for Mr. Edward Bayly,
Deputy Attorney-General.

Under the provisions of subsection 3 of section 65 of the Game and Fisheries Act, R.S.O. 1927, chap. 318—"The Minister when satisfied that the seizure or confiscation of any article or thing would work undue hardship or injustice and the value of such article is in excess of $100.00, the Minister may grant relief against such forfeiture and direct the *return of the article or thing* to the person from whom the same has been taken, upon such terms as he may deem just."

A case in point has arisen where the forfeited article has been sold and the Minister now desires to refund the amount of such article.

May I ask therefore if in your opinion, having regard to the provisions of the Act above referred to, has the Minister power to refund an amount equivalent to the sum received from the sale of the seized article.

This matter is submitted to you at the suggestion of the Minister, and I would very much appreciate your ruling on same.

G. A. Brown,
Provincial Auditor.

Department of Attorney-General,
Toronto 5, October 10th, 1930.

Dear Sir:

I am in receipt of your memorandum of October 9th asking for my opinion as to powers of the Minister of Mines under section 65 (3) of The Game and Fisheries Act to order the return of an amount of money realized from the sale of a confiscated article.

In my opinion the Minister would have no authority to make such an order.

Under the provisions of The Fines and Forfeitures Act, R.S.O. 1927, Cap. 129, sec. 6, it is provided, in effect, that the Lieutenant-Governor in Council may at any time remit any fine imposed by order under the authority of any

Act of the Legislature, with the exception of fines imposed under The Legislative Assembly Act, etc. By the definition clause "fine" includes forfeiture. I am of opinion, therefore, that the Lieutenant-Governor in Council has power to remit the proceeds of a forfeiture under section 65 of The Game and Fisheries Act.

Yours faithfully,

E. BAYLY,
Deputy Attorney-General.

GORDON A. BROWN, ESQ.
Provincial Auditor,
Buildings.

Re Agricultural Development Board

PROVINCIAL AUDITOR'S OFFICE,
Toronto, November 4th, 1930.

DEAR MR. BAYLY:

The Agricultural Development Board had a certain farm come back on their hands and in order to protect themselves against loss on a resale a contract was given to W. J. Humphrey for repairs to barn amounting to $600.00.

The account has been presented for payment and I returned it for further information asking the Board under what authority could expenditures of this nature be made.

In reply to my query the Chairman says, "Authority is general authority of the Board, as expenditures of this nature are essential to protect the equity of the Board in such properties, signed W.B.R."

May I ask, if, in your opinion, the Agricultural Development Board is legally authorized under the provisions of the Act R.S.O. 1927, chap. 68, to make expenditures, such as I have referred to.

In view of this being near the close of the fiscal year I would very much appreciate your ruling at your earliest opportunity.

Yours very truly,
G. A. BROWN,
Provincial Auditor.

MR. EDWARD BAYLY, K.C.,
Deputy Attorney-General,
Buildings.

DEPARTMENT OF ATTORNEY-GENERAL,
Toronto 5, November 6th, 1930.

DEAR MR. BROWN:

I am in receipt of your letter of November 4th asking for my opinion as to whether the Agricultural Development Board has power to expend money on the repair of buildings coming into their hands.

Under the provisions of the Agricultural Development Act, the Agricultural Development Board is created a body corporate.

I am informed by the solicitor Mr. Page that the Board are the mortgagees in possession of the property upon which the money was expended and in my view the Board is merely carrying out one of the incidentals of a mortgagee in possession in repairing the buildings for the purpose of resale; in other words, in my opinion the expenditure is a proper one.

Yours faithfully,
E. BAYLY,
Deputy Attorney-General.

GORDON A. BROWN, ESQ.,
Provincial Auditor.
Buildings.

C

SPECIAL WARRANTS

C

SPECIAL WARRANTS

STATEMENT OF SPECIAL WARRANTS ISSUED DURING THE FISCAL YEAR ENDED OCTOBER 31st, 1930

Date of Warrant	SERVICE		Warrants	Expended 1929-30	Unexpended
	Prime Minister's Department				
	Advertising Tourists' Attractions in Ontario:—				
	Balance unexpended 1928-29	$9,680 49			
April 29th, 1930	Warrant	50,000 00			
Aug. 29th, 1930	"	25,000 00	$84,680 49	$82,347 97	$2,332 52
	General Advertising—				
	Balance unexpended, 1928-29		1,238 63	350 00	888 63
	Public Welfare Commission, Expenses—				
Nov. 15th, 1929	Warrant		10,000 00	5,287 86	4,712 14
	Hydro-Electric Power Commission, for purchase of 3,311 shares of the capital stock of the Wahnapitae Power Co., Ltd.—				
June 5th, 1930	Warrant		1,026,410 00	1,026,410 00	
	Hydro-Electric Power Commission, for purchase of the assets, etc., in Ontario of the Public Utilities Consolidated Corporation—				
Oct. 30th, 1930	Warrant		520,000 00	520,000 00	
	Grant to Rameses Temple Shrine Committee, Toronto, towards the expenses of the entertainment of the visiting delegates to the convention of Mystic Shrine—				
July 9th, 1930	Warrant		15,000 00	15,000 00	
	Grant to the Canadian Bar Association in connection with the entertainment of guests from overseas—				
Sept. 9th, 1930	Warrant		2,000 00	2,000 00	
	Education Department				
	Grant, English-French Training School, Embrun, for a skating rink for the students—				
Nov. 29th, 1929	Warrant		75 00	75 00	

	Purchase and distribution of books for the Elementary and Secondary Schools and Public Libraries of the Province and contingencies in respect to same—				
	Balance unexpended, 1928-29	1,872 25			
Nov. 29th, 1929	Warrant	80,000 00	81,872 25	48,912 87	32,959 38
	Special grants to the Canadian Girl Guides' Association, Ontario Provincial Headquarters and Toronto Division Headquarters—				
May 9th, 1930	Warrant		1,000 00	1,000 00	
	Royal Ontario Museum, cost of cataloguing the contents of the museum.				
Jan. 21st, 1930	Warrant	5,000 00			
Sept. 16th, 1930	"	5,000 00	10,000 00	10,000 00	
	Grant to Queen's University—				
Nov. 29th, 1929	Warrant		50,000 00	50,000 00	
	Inspection of Indian Schools, services, travelling expenses and contingencies.—				
	Balance unexpended, 1928-29		2,190 96	1,113 50	1,077 46
	Lands and Forests Department				
	To assist in paying expenses in connection with taking over a right-of-way across lot 14, concession A, Township of South Walsingham, and constructing thereon a roadway connecting Long Point Park with road leading into Town of Port Rowan—				
	Balance unexpended, 1928-29		6,684 01	6,020 66	663 35
	To pay wages, etc., in connection with the hardwood industry, north shore of Lake Huron, re Matininda Forest Products, Ltd.—				
May 9th, 1930	Warrant		24,000 00	23,093 18	906 82
	Northern Development Department				
	Costs and expenses incurred in connection with the Northern Development Exhibit at the Canadian National Exhibition, Toronto—				
	Balance unexpended, 1928-29	95 25			
Nov. 29th, 1929	Warrant	600 00			
Aug. 14th, 1930	"	2,500 00	3,195 25	1,473 20	1,722 05
	Costs and expenses re trip to Northern Ontario by certain members of the Executive of the Ontario Good Roads Association and others, from Aug. 18th to 26th, 1930—				
Sept. 9th, 1930	Warrant		1,700 00	1,490 91	209 09

SPECIAL WARRANTS Continued

Date of Warrant	SERVICE		Warrants	Expended 1929-30	Unexpended
	Public Works Department				
	Rebuilding of Stone Crushing Plant at Ontario Reformatory, Guelph—				
June 5th, 1930	Warrant		7,160 26	7,160 26	
	Decoration of Government Buildings and grounds, Toronto—				
Aug. 29th, 1930	Warrant		8,863 18	8,863 18	
	Grilles and Prison Cells at the Town Hall, Sturgeon Falls—				
Sept. 9th, 1930	Warrant		1,100 00	1,100 00	
	Public Highways Department				
	Cost of advertising by the Safety Committee of the Department of Public Highways—				
	Balance unexpended, 1928-29	6,910 34			
Jan. 10th, 1930	Warrant	60,000 00	66,910 34	49,802 52	17,107 82
	Labour Department				
	Unemployment Relief Accounts—				
Nov. 7th, 1930	Warrant		25,000 00	24,218 91	781 09
	Public Welfare Department				
	Contingencies—				
Sept. 30th, 1930	Warrant		5,000 00	605 51	4,394 49
	Provincial Treasurer's Department				
	Agricultural Development Board, for the purchase of debentures, issued under the Agricultural Development Act—				
Nov. 15th, 1929	Warrant	1,000,000 00			
Jan. 10th, 1930	"	2,000,000 00			
May 9th, 1930	"	2,000,000 00			
Aug. 14th, 1930	"	1,000,000 00	6,000,000 00	5,950,000 00	50,000 00

	Provincial Secretary's Department				
	Purchase from Charles Locke of his interests in the South half of Lot 5, Concession 3, Township of Laura—				
April 16th, 1930	Warrant		161 00	161 00	
	Grant to Freeport Sanitarium—				
July 17th, 1930	Warrant		25,000 00	25,000 00	
	Agriculture Department				
	One-half of the expenses of Inspectors appointed by municipalities under the Corn Borer Act—				
	Balance unexpended, 1928-29	62 55			
Jan. 21st, 1930	Warrant	13,000 00	13,062 55	12,909 04	153 51
	Ontario Fruit Growers' Association, salaries and expenses of maintaining a representative on the British Market to facilitate marketing of Ontario's fruit abroad and further the marketing of Ontario fruit in the other provinces of Canada—				
Nov. 29th, 1929	Warrant		8,000 00	8,000 00	
	To meet claims for losses incurred by the use of saltpetre in cheese factories in Ontario—				
Feb. 3rd, 1930	Warrant		2,500 00	1,821 52	678 48
	Grant to the Canadian Lakehead Exhibition for special expenses in connection with Agricultural Short Courses for the young men of the district of Fort William—				
June 26th, 1930	Warrant		1,000 00	1,000 00	
	Services and expenses in connection with the World's Poultry Congress held in London, England, July 1930—				
July 9th, 1930	Warrant		6,000 00	3,621 57	2,378 43
	Expenses, etc., re investigating the marketing of Ontario fruits and vegetables—				
Sept. 30th, 1930	Warrant		2,500 00	204 25	2,295 75
	General Miscellaneous				
	Ontario Research Foundation, payments under Section 7 of the Research Foundation Act, 1928—				
Dec. 3rd, 1929	Warrant	519,175 92			
July 31st, 1930	"	207,995 00	727,170 92	727,170 92	

SPECIAL WARRANTS—Continued

Date of Warrant	SERVICE		Warrants	Expended 1929-30	Unexpended
	General Miscellaneous—Continued				
June 5th, 1930	Ontario Research Foundation, cost of alterations and equipment of laboratories at 43 and 47 Queens Park— Warrant		304,678 60	304,678 60	
July 31st, 1930	Ontario Research Foundation, to cover deficit to December 31st, 1929— Warrant		4,193 38	4,193 38	
Aug. 14th, 1930	Purchase price of the balance of the assets of the Canadian International Films, Ltd., installed at the Motion Picture Plant in Trenton on property owned by the Province of Ontario— Warrant		11,874 00	11,874 00	
Jan. 10th, 1930	Grant, Citizens' Service Association, to assist the Association in their work in connection with the re-establishment of ex-prisoners— Warrant		5,000 00	5,000 00	
April 16th, 1930	Special grant to the Canadian Legion of British Empire Service League— Warrant		425 00	425 00	
April 16th, 1930	Special grant to Poppy Day Fund, to assist in defraying the expenses of their activities— Warrant		425 00	425 00	
April 16th, 1930	Grant to the Ontario Rifle Association— Warrant		1,000 00	1,000 00	
April 16th, 1930	Grant to William Clark Trust Settlement, being Province's contribution re education of the children of the late William Clark who was killed on 27th day of June, 1929, in an attempt to apprehend an armed bank bandit, who had previously robbed a provincial bank at Hamilton— Warrant		3,000 00	3,000 00	
April 16th, 1930	Grant to the Ontario Society for Crippled Children— Warrant		10,000 00	10,000 00	

April 10th, 1930	Grant to the International Boys' Work Council, to assist in defraying the expenses of the International Boys' Work Conference— Warrant		300 00	300 00	
April 10th, 1930	Grant to the Canadian Red Cross Society, Ontario Division— Warrant		10,000 00	10,000 00	
June 5th, 1930	Grant to Labour Educational Association of Ontario— Warrant		100 00	100 00	
May 28th, 1930	Grant to the Canadian Conference on Social Work— Warrant		300 00	300 00	
July 31st, 1930	Grant to the Toronto Real Estate Board to assist in meeting the expenses of the convention of the National Association of Real Estate Boards, held in Toronto— Warrant		1,000 00	1,000 00	
Aug. 15th, 1930	Grant to the Canadian Military Institute— Warrant		600 00	600 00	
Aug. 14th, 1930	Grant to the Veterans' Reunion Council to assist in arrangements for Warriors' Day in connection with the Canadian National Exhibition Warrant		500 00	500 00	
Aug. 14th, 1930	Grant to the Community Welfare Council of Ontario— Warrant		2,000 00	2,000 00	
Aug. 14th, 1930	Grant to St. John Ambulance Association— Warrant		2,000 00	2,000 00	
Sept. 16th, 1930	Grant to the British Empire Games Association of Hamilton— Warrant		5,000 00	5,000 00	
Oct. 10th, 1930	Grant to the Ontario Artillery Association— Warrant		1,000 00	1,000 00	
Oct. 10th, 1930	Special grant to assist in financing the visit of the Argonaut Crew in 1929 to Henley— Warrant		1,500 00	1,500 00	
	Total Special Warrants		$9,104,370 82	$8,981,109 81	$ 123,261 01

D

TREASURY BOARD MINUTES

D

TREASURY BOARD MINUTES

STATEMENT OF TREASURY BOARD MINUTES ISSUED FOR EXPENDITURES IN EXCESS OF APPROPRIATIONS DURING THE FISCAL YEAR ENDED OCTOBER 31st, 1930

Prime Minister's Department

	Warrant	Expended
Main Office, Contingencies	9,500 00	$9,094 31
Sundry Investigations	3,000 00	2,016 05
King's Printer's Office, Contingencies	3,700 00	3,634 39
Cartage of Departmental Stationery	300 00	263 50
Hydro-Electric Power Commission—		
Niagara System, Transmission and Distributing Lines, additional 220 K.V. Lines	77,649 00	77,649 00
Georgian Bay System, Transformer Stations, Extension to Stations at Barrie, Dundalk, Kirkfield and Orangeville	33,456 00	33,456 00
St. Lawrence, Rideau, Ottawa and Madawaska Systems, Transmission and Distribution Lines, Rural Distribution	162,000 00	162,000 00
Central Ontario System, Transmission and Distribution Lines, Rural Distribution	187,500 00	187,500 00

Legislation

	Warrant	Expended
Sessional Writers, Messengers, Pages, etc	4,000 00	3,998 67

Attorney-General's Department

	Warrant	Expended
Main Office, Contingencies	4,000 00	2,046 55
General, Commissions and Sundry Investigations	25,000 00	24,194 10
Supreme Court, Contingencies	3,000 00	2,999 43
Administration of Justice—		
Audit of Criminal Justice Accounts, Salaries	237 50	237 50
General Administration of Justice in Counties	115,000 00	114,643 68
Algoma District, Salaries of Engineers, Gaolers, Caretakers, etc.	175 00	10 80
Fuel, Light and Water	200 00	181 19
Kenora District, Salaries of Gaolers, Lock-up Keepers, etc.	900 00	778 50
Parry Sound District, Fuel, Light and Water	250 00	217 80
Rainy River District, Fuel, Light and Water	1,200 00	1,055 68
Sudbury District, Fuel, Light and Water	2,500 00	2,086 77
Temiskaming District, Salaries of Gaolers, Lock-up Keepers, etc.	1,100 00	725 00
Thunder Bay District, Salaries of Gaolers, Lock-up Keepers, etc.	850 00	694 00
Inspection of Legal Offices, Printing, Stationery and Contingencies	1,500 00	606 96
Miscellaneous, Railway and Municipal Board, Contingencies	2,000 00	641 35

Education Department

	Warrant	Expended
Public and Separate School Education—		
Rural, Public and Separate Schools, Counties, General Grants and Contingencies	383,000 00	274,680 81
Urban, Public and Separate Schools, Special Grants and Contingencies	6,000 00	4,677 02
Rural, Public and Separate Schools, Districts, General Grants and Contingencies	336,000 00	325,505 49
Assisted Public and Separate Schools, Grants and Contingencies	55,000 00	51,530 75
Night Schools, Grants and Contingencies	8,500 00	8,194 79
Agricultural and Horticultural Grants to School Boards, etc.	231,000 00	224,389 12
Industrial Arts, Manual Training, etc., Grants to Boards, Teachers, etc	31,000 00	30,905 59
Correspondence Courses, etc., Services, equipment, etc	2,000 00	1,442 24
Continuation Schools, Grants and Contingencies	36,000 00	33,353 02
Fifth Classes, Grants and Contingencies	42,500 00	38,897 07
Spring and Summer Schools, etc., and Contingencies	30,000 00	23,797 95
Special Grants to Art Department and Teachers in Art, etc., and Contingencies	1,600 00	1,569 50
Grants to School Boards, Supervisors and Teachers to Encourage Courses in Music, etc., and Contingencies	12,500 00	11,923 33
Inspection of Schools—Public School Inspection	25,000 00	21,344 48

TREASURY BOARD MINUTES—Continued

Education Department—Continued

	Warrant	Expended
Auxiliary Classes, Grants, Services, Travelling Expenses and Contingencies	24,000 00	20,880 77
Travelling Expenses, etc., of Inspectors, etc., and Contingencies	25,000 00	20,086 98
Departmental Examinations, including Services and Travelling Expenses	40,000 00	32,033 37
Text Books, Preparation of, etc., Travelling Expenses and Contingencies	6,000 00	4,421 34
General Investigation and Survey of Schools Attended by Pupils who speak the French Language	2,000 00	2,000 00
Training Schools, Grants to School Boards for Use of Schools for Observation Purposes	500 00	353 57
Normal and Model Schools—		
Toronto, Reference Books and Contingencies	1,500 00	1,499 40
Physical Culture Apparatus, etc	50 00	36 25
Wages of Porters, etc., and Labourers on Grounds	700 00	468 60
Scrubbing, Cleaning, etc	200 00	87 33
Ottawa, Extra Services and Additional Teachers	600 00	600 00
Stratford, Payment to Stratford Board of Education	150 00	150 00
Fuel, Light and Power	800 00	417 22
North Bay, Expenses of Grounds, Trees, etc	150 00	51 77
University of Ottawa, Reference Books, Contingencies, etc	800 00	586 30
Students' Board and Travelling Expenses	25,000 00	3,583 65
English-French Training School, Embrun, Salaries	275 00	58 33
High Schools and Collegiate Institutes—		
Night High Schools, Grants	5,000 00	3,800 10
Grants to School Boards, etc., to Encourage Courses in Music in High Schools	200 00	121 11
Public Libraries—		
Grants to Ontario College of Art and Other Art Societies	1,000 00	1,000 00
Technical Education—		
Manual Training and Household Science Departments, Grants, etc., and Contingencies	2,000 00	1,449 78
Industrial, Commercial and Technical Education, Day and Evening Classes, etc	370,000 00	364,335 50
Ontario Training College for Technical Teachers, Critic Teachers and Other Additional Teachers	1,200 00	1,060 00
Belleville School for the Deaf, Expenses	700 00	593 83
Miscellaneous, High and Public School Registers	1,250 00	1,083 13

Lands and Forests Department

	Warrant	Expended
General—		
Rondeau Provincial Park	7,000 00	6,795 08
Quetico Provincial Park	1,500 00	1,405 13
Forestry Branch—		
Fire Ranging	775,000 00	715,838 56
Forest Research	3,000 00	2,863 79
Surveys Branch, Surveys	20,000 00	19,059 55

Mines Department

	Warrant	Expended
General—		
Research Works, Salaries, Equipment and Expenses	11,000 00	4,849 85
Diamond-drilling Lignite and Other Deposits in Northern Ontario	98,000 00	35,597 55

Game and Fisheries Department

	Warrant	Expended
Services and Expenses in Connection with Exhibits	900 00	895 75

Public Works Department

	Warrant	Expended
Maintenance and Repairs of Government Buildings—		
Government House—		
Water, fuel, light and power	500 00	477 61
Furniture and furnishings	3,000 00	2,731 37
Telephone service	250 00	247 04
Renewing curbs and gutters, and repairs to sidewalks and grounds	1,500 00	1,475 19

TREASURY BOARD MINUTES—Continued

Public Works Department—Continued

	Warrant	Expended
Parliament Buildings—		
Electric power and light current and gas	9,000 00	8,997 01
Supplies, tools, etc	11,700 00	11,700 00
Furniture and furnishings	14,600 00	14,501 00
Interior alterations	2,000 00	1,940 57
Painting inside and outside work	4,800 00	4,368 57
Telephone service	9,000 00	8,836 47
Osgoode Hall—		
Furniture and incidentals	600 00	589 62
Telephone service	500 00	414 82
General repairs and alterations	3,000 00	2,851 92
Normal and Model Schools—		
Toronto, furniture and furnishings	30 00	25 54
Ottawa, renewing sidewalk	44 00	44 00
Belleville, School for the Deaf—		
Repairs and incidentals, including repairs to parapet walls, plastering, etc	5,000 00	3,861 50
Painting interior and exterior	1,207 00	1,206 75
Equipment, etc	800 00	770 95
Kemptville Agricultural School, painting interior and exterior	175 00	175 00
Turkey Experimental Farm, repairs and incidentals	700 00	321 56
Brighton Cold Storage Plant, structural alterations to buildings	564 00	403 35
District Buildings—		
Algoma, furniture and furnishings	400 00	3 01
Cochrane, repairs and alterations to buildings	500 00	116 91
Nipissing, furniture and furnishings	400 00	245 46
Parry Sound, furniture and furnishings	800 00	708 27
Rainy River, furniture and furnishings	200 00	73 34
Temiskaming, salary of caretaker, New Liskeard	60 00	60 00
furniture and furnishings	600 00	317 57
Thunder Bay, Repairs and alterations to Court House	1,050 00	1,033 74
Furniture and furnishings	900 00	811 35
Miscellaneous—		
Automobiles, purchase, repairs, etc	19,000 00	17,340 54
Services, travelling and other expenses	3,000 00	2,551 68
Insurance, including installation of lightning rods	9,000 00	8,912 62
Labour Employment Office, 45 Front St. W., Toronto, repairs and incidentals	700 00	634 83
Ontario Government Building, Toronto Exhibition, preparing and installing exhibits, etc	7,900 00	7,497 65
Public Works and Bridges—		
Equipment, instruments, etc	1,000 00	676 99
Municipal bridges, grants and construction	22,500 00	4,981 67
Belleville School for the Deaf, sewage disposal plant	6,530 00	6,528 82
London Hospital, repairs to well and pump	500 00	61 25
Public Buildings—		
Hamilton Hospital, infirmary building	5,000 00	3,977 35
Guelph Reformatory, additional heating and overhauling old system	2,850 00	2,080 47
O.A.C., Guelph, administrative and students' residence building, etc., including furnishings, etc	100,000 00	4,099 35
Horticultural building, including furnishings, etc	50,000 00	35,577 87
Horticultural Experimental Station, Vineland, staff cottage	600 00	305 68
Western Ontario Experimental Farm, Ridgetown, addition to school	25,000 00	21,457 74
Ontario Government Buildings, London, England, building operations, furnishings, etc	50,000 00	2,521 61
Purchase of property	425,000 00	422,817 09

Public Highways Department

	Warrant	Expended
Main Office, contingencies	5,000 00	3,419 40
Miscellaneous, exhibits	525 00	475 92

TREASURY BOARD MINUTES—Continued

Public Highways Department—Continued

	Warrant	Expended
Motor Vehicles Branch—		
Salaries	4,600 00	1,161 53
Contingencies	60,000 00	58,128 62
Miscellaneous—		
Constables, for enforcement of Motor Vehicles Act, etc.	10,000 00	4,176 12
Automobile Markers and Supplies	45,000 00	44,995 94

Health Department

	Warrant	Expended
District Officers of Health Branch, annual conference of Health Officers	214 20	214 20
Maternal and Child Hygiene and Public Nursing Branch, District Nurses, services and expenses	10,000 00	7,348 68
Dental Service Branch, contingencies	5,000 00	2,440 54
Inspection of Training School for Nurses Branch, salaries	343 75	268 75
Enforcement, etc., of Registration of Nurses Act	3,200 00	2,251 06
Preventable Diseases Branch—		
Outbreaks of Diseases, etc	30,000 00	28,614 76
Treatment of Patients in Hospitals and Clinics, etc	28,000 00	19,526 53
Industrial Hygiene Branch, services and expenses	15,000 00	4,567 47
Sanitary Engineering Branch, services and expenses	5,000 00	2,806 92
Main Laboratory, services and expenses	16,000 00	12,956 75
Public Health Education—		
Services and expenses	22,000 00	10,078 32
Advertising	500 00	494 23
Registrar General's Branch, contingencies	5,000 00	2,645 06

Labour Department

	Warrant	Expended
Apprenticeship Branch, salaries	425 00	425 00
Stationery and Hoisting Engineers Board, contingencies, etc	2,000 00	1,164 77
Minimum Wage Board, salaries	75 00	75 00
Miscellaneous, educational work, conferences, etc	2,000 00	1,320 41
Mothers' Allowance Commission, contingencies, etc	5,000 00	820 03

Provincial Treasurer's Department

	Warrant	Expended
Succession Duties Branch, salaries	1,400 00	1,400 00
Board of Censors, contingencies	2,000 00	1,372 17
Motion Picture Bureau—		
Contingencies	7,375 00	7,065 42
Purchase and Maintenance of Equipment, motion picture machines and film, etc	4,200 00	2,817 29
House Post Office—		
Salaries	425 00	425 00
Postage and Cost of House Post Office	15,000 00	7,385 47

Provincial Auditor's Office

	Warrant	Expended
Salaries	2,457 50	1,063 72

Provincial Secretary's Department

	Warrant	Expended
Main Office, contingencies	600 00	589 65
Children's Aid Branch—		
Enforcement of the Children's Protection Act, etc	12,000 00	10,472 11
Industrial Schools	20,110 50	20,110 50
Bureau of Municipal Affairs, salaries	75 00	75 00

TREASURY BOARD MINUTES—Continued

Provincial Secretary's Department—Continued

	Warrant	Expended
Public Institutions Branch—		
Contingencies	12,000 00	9,216 10
Printing Examination Papers, etc., training School for Nurses	500 00	274 44
Removal of Patients	4,000 00	1,385 35
Travelling and other expenses of Bailiff and Prisoners	3,500 00	3,005 41
Railway Fares and Clothing of discharged prisoners	4,000 00	3,791 17
Exhibit at C.N.E. and other exhibitions	2,480 15	2,480 15
Unforeseen and unprovided	3,750 00	3,130 28
Hospitals and Charities Branch—		
Salaries	800 00	421 68
General Hospitals	59,583 90	53,458 50
Orphanages	1,096 70	1,096 70
Homes for Incurables	12,730 80	12,730 80
Maintenance of Patients in Municipal Sanatoria for Consumptives	39,478 75	39,478 75
Public Institutions—		
Ontario Hospitals—		
Brockville, expenses	35,000 00	14,376 77
Repairs to buildings, etc	9,000 00	6,426 29
Cobourg, expenses	15,000 00	11,083 38
Repairs to buildings	5,500 00	3,979 62
Hamilton, expenses	25,000 00	3,152 67
Kingston, salaries	16,387 50	12,984 67
Expenses	25,000 00	11,423 24
London, salaries	18,925 00	8,945 88
Expenses	20,000 00	4,953 69
Repairs to buildings, etc	57,000 00	48,218 85
Mimico, salaries	2,462 50	1,661 32
Expenses	30,000 00	20,604 15
Repairs to buildings	85,000 00	68,695 28
Orillia, salaries	30,662 50	17,303 27
Repairs to buildings, etc	20,000 00	11,572 32
Toronto, salaries	2,443 75	1,506 90
Expenses	15,000 00	4,217 92
Whitby, salaries	14,312 50	11,627 31
Expenses	40,000 00	27,978 25
Ontario Reformatory, Guelph, salaries	9,154 25	2,278 06
Expenses	50,000 00	41,013 84
Repairs to buildings, etc	10,000 00	7,785 72
Ontario Brick and Tile Plant, Mimico, salaries	3,352 00	3,351 67
Expenses	52,000 00	41,843 54
Mercer Reformatory, repairs to buildings, etc	8,000 00	7,118 97
Industrial Farm, Burwash, expenses	25,000 00	7,942 15
Fort William, repairs to buildings, etc	3,500 00	1,712 20
Boys' Training School, Bowmanville, salaries	950 00	428 25
Expenses	15,000 00	10,407 30
Repairs to buildings, etc	34,000 00	31,551 79
Gratuities and wages to boys	2,000 00	891 00

Agriculture Department

	Warrant	Expended
Live Stock Branch, contingencies	800 00	348 68
Fruit Branch—		
Fruit work, including expenditures under Fruit Pests Act, etc.	5,000 00	4,998 64
Horticultural Experimental Station, services, travelling and other expenses, etc	5,000 00	4,996 07
Agricultural Representatives Branch—		
Contingencies	1,000 00	366 47
Agricultural Representative Work, etc	10,000 00	9,759 29
Demonstration work on farm, Sudbury District	114 12	114 12
Short Courses for winners in competitions	160 00	159 94

TREASURY BOARD MINUTES—Continued

Agriculture Department—Continued

	Warrant	Expended
Crops, Co-operation and Markets Branch—		
To encourage co-operative marketing	1,500 00	1,355 67
Administration, etc., of the Weed Control Act	1,200 00	484 92
Colonization and Immigration Branch—		
Emigration work in Great Britain and Ireland	15,000 00	10,308 48
Headquarters for receiving and distributing boy and girl settlers, etc	20,000 00	19,810 82
Ontario Veterinary College, Faculty and staff	1,200 00	1,167 50
Demonstration Farm, New Liskeard, expenses of clearing, construction of buildings, etc	1,000 00	954 49
Demonstration Farm, Hearst, maintenance, buildings, stock and equipment	6,000 00	5,970 28
Ontario Agricultural College—		
Field Experiments, foremen, teamsters and labourers	1,500 00	1,426 58
Poultry Department, poultry extension work, etc	9,500 00	9,359 63
Horticultural Department, foremen, teamsters, etc	4,000 00	3,488 80
General—		
Expenses of exhibit of fruit, grain, etc., at exhibitions	4,000 00	3,461 63
Removal expenses of officials	200 00	194 60
Incidentals	25,000 00	17,973 52

General Miscellaneous

	Warrant	Expended
Compensation, etc., for workmen injured while engaged on government work	15,000 00	5,700 19
Grant to Soldiers' Aid Commission, re expenses	15,075 66	15,070 66
Assisting in presentation of claims of ex-service men	3,500 00	1,651 85
Total Treasury Board Minutes	$5,376,898 53	$4,502,119 45

REPORT FOR 1930

OF

The Workmen's Compensation Board

ONTARIO

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO
SESSIONAL PAPER No. 28, 1931

ONTARIO

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1931

Toronto, March 25th, 1931.

To the Honourable William Donald Ross,
Lieutenant-Governor of the Province of Ontario.

May It Please Your Honour:

The undersigned has the honour to transmit to Your Honour the Report of The Workmen's Compensation Board for the year 1930.

Respectfully submitted,

William H. Price,
Attorney-General.

THE WORKMEN'S COMPENSATION BOARD

V. A. SINCLAIR, K.C., Chairman
H. J. HALFORD, Vice-Chairman
GEO. A. KINGSTON, Commissioner
N. B. WORMITH, Secretary

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REPORT FOR 1930

OF

THE WORKMEN'S COMPENSATION BOARD

ONTARIO

To His Honour The Lieutenant-Governor:

The Workmen's Compensation Board begs leave to submit its Report for the year 1930, being the sixteenth year of the operation of the Act.

GENERAL REVIEW

Premises

The Board's offices remain on the 11th and 12th Floors of the Metropolitan Building, corner of Adelaide and Victoria Streets, Toronto.

Accidents

The year 1930 shows a large decrease in the number of accidents reported to the Board, which is fairly indicative of the decrease in employment in industries in the Province. The accidents reported in 1929 numbered 87,103, whereas the accidents reported during 1930 totalled 69,267, a decrease of over 20 per cent. in number of accidents. The only month in which the number of accidents in 1930 exceeded those in 1929 was the month of January. The highest number of accidents reported in any month during the year was 6,307 accidents during the month of June.

The provisional pay rolls reported to the Board also showed a substantial decrease, amounting as they did to $543,455,000 in 1929 and $485,262,000 in 1930, and the number of employers reporting also decreased from 24,078 in 1929 to 23,912 in 1930.

Out of the 61,795 cases allowed during 1930, 56,715 were in Schedule 1 alone, and out of these 30,174 involved medical aid only, which shows a lessening of severity of accidents, as the percentage of cases involving medical aid only allowed during 1929 was nearly 50 per cent., and during 1930 a little over 53 per cent. There were 427 deaths, as compared with 452 in 1929.

Benefits

The total amount of benefits awarded under the Act during the year 1930 was $7,423,018.82, as compared with $8,012,157.78 in 1929, and $7,067,946.93 in 1928. Out of the benefits so awarded in 1930, $6,278,802.30 was in Schedule 1 industries, $609,555.40 in Schedule 2 industries, and $534,661.12 in Crown cases. The benefits awarded in Schedule 1 included $1,336,046.05 for medical aid, as compared with medical aid amounting to $1,385,524.62 in 1929. The medical aid represented a little over 21¼ per cent. of the total amount awarded for benefits in Schedule 1.

The total benefits awarded from the commencement of the Act to the end of 1930 amounted to $85,903,225.75, and the total number of accidents reported during the same period were 875,677.

Average Rates of Assessment

Based on the estimated wage expenditure, the average rate of assessment in all classes in Schedule 1 would amount to $1.40, as compared with $1.35 in 1929, and an average of $1.18 since the commencement of the Act, the increase being accounted for to a great extent by the fact that the benefits have been increased from time to time by amendments to the Act.

Administration Expenses

While the number of accidents showed a considerable decrease during the year, the Board has had a greatly increased number of appeals to deal with, due in a large extent to people being out of employment and coming back to the Board for reconsideration of their cases, either by way of appeals against rejections or for increased awards; also a great many extra demands have been made by infants and pensioners having moneys coming to them, either in deferred awards or by way of pensions, for temporary advances or for commutations of pensions to enable them to tide over the periods of unemployment, and the Board has been very lenient in consideration of such claims in view of the peculiar necessities of the case during the past year.

The Board has also taken on special work in aid of the accident prevention associations, to give them the accurate information as to the experience of the individual employers, so that where individual accident experience is bad the cause of it may be inquired into and remedied. This has involved the taking on of several employees capable of making such statistical investigations, but the cost of this special work has been charged against the particular accident prevention association requesting the information and authorizing the employment of such special investigator, the work being done by the Board but at the expense of such association.

The Board has also extended during the year the practice of local investigations by its Chief Medical Officer, and has had him make special trips to Port Arthur for the western district, and Sudbury, as well as continuing the special examinations at Windsor, London, and Ottawa, as carried on in 1929. The results have been good in arriving at a fair understanding of permanent disabilities and in reviews of long-standing or disputed cases, and have fully justified the extra expense involved.

The Board also is carrying on special examinations under the Mining Act, and special work in connection with the establishment of mine rescue stations, as required by the Mining Act, and it was thought that a special charge should be made for special services rendered to the mining class in connection with the silicosis work, and accordingly they have been charged with a fair share of the administration expense in view of the special work done for the class.

With the increased work, there has been a slight increase in administration costs. The total administration expenses during the year amounted to $354,629.73, from which should be deducted the amount charged the accident prevention associations for special statistical services rendered to them, amounting to $7,630, leaving the administration expenses at $346,999.73. Against this during the year was charged the special charge to the mining class in connection with the silicosis work, amounting to $33,992.13, this being for the whole period since the commencement of the special examinations and services in connection with the silicosis provisions of the Act. The total administration expenses for 1929 were $341,083.58, which compares with the $346,999.73 above.

All the administration expenses are now paid by the employers under the Act, without any governmental assistance, and the amount is distributed among Schedule 1, Schedule 2, and Dominion and Provincial Crown cases, in accordance with the work done in each of these classes. The amount charged to the Silicosis Fund was as above, $33,992.13; to Schedule 1 employers, $264,882.02; to Schedule 2, $25,315.57; to Dominion Crown, $17,719.46; and to Provincial Crown, $5,090.55. The total administration expenses for 1930 were 4.67 per cent. of the benefits awarded; 4.76 per cent. was the percentage of benefits awarded in connection with Schedule 1, and 4.21 per cent. in connection with the benefits awarded in Schedule 2 and Crown cases.

Amendments

There were no legislative amendments passed during the session of 1930.

Safety Associations and Mine Rescue Stations

Further increase has been made by the Board in connection with grants to safety associations, the total during the year being $146,929.22, as compared with $127,638.98 in 1929, divided as follows: Lumbermen's Safety Association, $25,200; Ontario Pulp and Paper Makers' Safety Association, $12,130; Industrial Accident Prevention Associations, $100,999.22; and Electrical Employers' Association of Ontario, $8,600.

The membership of the Industrial Accident Prevention Associations has been added to by the inclusion of an accident prevention association in connection with Class 23, and the employers in the general construction group of Class 24 having pay rolls of $30,000 and over. This would be part of the cause for increased expenditures in connection with the Industrial Accident Prevention Associations.

Continued interest has been shown by the employers in the different classes in accident prevention and safety work, which has been manifested in the very large attendance at the meetings of the different associations during the year. More effective work and better results it is hoped will follow the change in policy of bringing home to individual employers with a bad accident experience the necessity for increased accident prevention work in their particular industry and thus localizing still more the responsibility for bad accident experience. The increased interest is also shown by the fact that there have been three new safety associations formed, representing the steel erection group in Class 23, the larger employers in the general construction class, and finally the group of Class 5 comprising the mining employers in the Province.

The Board has also established in connection with the first aid provisions of the Act, as endorsed by the Mining Act, a further mine rescue station at Sudbury. This station was erected at a cost of over $10,000, and has been fully equipped for mine rescue work for that district. There has been spent for the erection of this station, the salary of operators in connection with this station and that at Timmins, and for supplies in connection with these stations, during the year $24,973.15. It is intended during the year 1931 to establish a further rescue station in the Kirkland Lake mining field.

First Aid

The necessity of employers providing adequate first aid treatment in all plants is again specially drawn to their attention, as experience has shown that the benefit of prompt and efficient first aid largely decreases accident severity and accident cost. The provisions of the Act require every employer to have a suitable first aid kit provided, adequate for the particular industry carried on by him.

Rehabilitation

The Board has spent about the same amount in rehabilitation work as in previous years, but owing to the decrease in industrial operations it has been more difficult to rehabilitate injured workmen in connection with actual employment in industry, which is the best form of rehabilitation which can be undertaken. Naturally where there are a good many able-bodied workmen applying for positions, the employer feels that in times when it is necessary to decrease production costs as much as possible he should only employ those who can give the best return for the wages paid. Hence, the greater difficulty in getting employment for maimed workmen. The Board, however, urges all employers to consider the responsibility which is placed upon industry for the care of workmen during disability and their rehabilitation after they have been cured to the extent to which medical attention can go, and the Board desires to thank those of the employers who have been specially active in endeavoring to rehabilitate injured workmen by taking them back into their employ or taking men injured in other industry into their employ for the purpose of giving them another chance. The Board requests not only a continuance of this co-operation, but also increased co-operation in the re-employment of injured workmen so that they may be the more rapidly rehabilitated into some form of work.

Merit Rating

The same principles have been applied in connection with merit rating, and refunds to the extent of $123,661.83 have been made in merit rating refunds during the year, as compared with $107,860.67 in 1929, and $85,597.27 in 1928, showing increasingly good accident experience by employers, justifying increased encouragement by means of greater refunds for such better experience.

Funds

No levy has been made this year for the Disaster Reserve Fund, which is created by assessment on all the classes to cover unforeseen disaster or to meet payments which would unduly burden any class of industry. The Disaster Reserve Fund at the end of the year stands at $269,498.16, as compared with $280,284.14 at the end of 1929. There has been no charging by reason of any large disaster, but charges have been made under the practice of the Board to charge part of the cost of accidents to maimed workmen who have been injured a second time to the Disaster Fund and part to the employer and class in whose employ the injured workman was at the time of the accident. This method is one of the means used by the Board to encourage the re-employment of maimed workmen by employers, the employer's account being charged only with the cost which would have been charged had the workman been injured for the first time, and the balance of the cost of an accident to a maimed workman being paid out of the Disaster Reserve Fund. The amount so charged during the year in relief of pensions charged to various classes was $23,857.63.

Each year the Board transfers to the Pension Fund the capitalized value of all pensions awarded during the year, computed on an earning of five per cent., half yearly, during the life expectancy of the injured workman, and this Pension Reserve represents the actuarial liability outstanding in connection with the pensions actually granted by the Board. The amount now standing to the credit of the Pension Reserve Funds is as follows: Schedule 1, $18,463,332.33, Schedule 2, $3,554,166.98, as compared with amounts standing at the credit of said funds at the end of 1929 as follows: Schedule 1, $17,352,229.71, Schedule 2, $3,537,455.90.

The Board each year has to invest in permanent investments the funds set aside for such pension reserves and such amounts as may have matured in the preceding year, and owing to the yield on bonds having materially decreased during the year 1930 the Board was fortunate to have made its purchase of bonds very early, before the yield had materially lessened, and even before the funds were in hand to purchase, and by so doing it was able to raise the average rate of interest earned on Schedule 1 investments from 5.04 per cent. in 1929 to 5.10 per cent. in 1930, while the average rate of earnings on Schedule 2 funds amounted to 5.60 per cent.

The 'Accident Fund,' the fund out of which accident costs are paid, is intended to meet as nearly as possible the accident costs in the year in which it is levied. Of necessity, in addition to actual payments made and awards of pensions, further payment of temporary disability and permanent disability awards may be still outstanding at the end of the year, as the case may be still continuing or may not have progressed sufficiently to make a definite award, and the Board has to have on hand sufficient to meet not only payments which have been actually made but outstanding claims in connection with accidents which have occurred. The Board shows on hand as a provisional balance at the end of 1930, $1,516,298.61 in connection with the accident fund from the commencement of the Act, which is somewhat larger than the balance at the end of 1929. The Board does not desire to have any great surplus in the accident fund beyond actual current needs.

Audit

A continuous audit of all the accounts of the Board has been carried on by Messrs. Fred Page Higgins & Company, the auditors appointed by the Lieutenant-Governor in Council under the provisions of Section 74 of the Act, and their certificate is appended at the end of this report.

Contents of Report

In the different chapters and tables, as indicated in their headings, will be found information and particulars regarding compensation and assessments in the various industries, and explanations and particulars of the different funds of the Board; also an analysis and tabluation of the causes of accidents, the nature of injuries, and other information concerning accidents and workmen. The appendix contains a short summary of the operations from the commencement of the Act to the end of 1930.

CHAPTER 1

SCHEDULE 1 INDUSTRIES FOR 1930

As some of the industries covered by the Act are under the collective liability system (the employer not being individually liable for accidents to his workmen but being assessed to provide a general fund out of which accidents occurring in his class of industry throughout the Province are taken care of) and others are under the individual liability system (the employer being liable to pay for accidents happening to his own workmen), separate financial statements have to be made for each. The industries under the collective liability system are included in Schedule 1, and those under individual liability in Schedule 2, the former comprising much the greater number.

This chapter deals with Schedule 1 industries for 1930. Schedule 2 industries are dealt with in Chapter II, while Chapter III deals with the work handled in both schedules and the administration of the Act generally during the year, Chapter IV with the different funds in both schedules and their standing at the end of 1930, and Chapter V gives financial and statistical information for 1929, which was not available when the report for that year was made.

Provisional Financial Statement

The provisional financial statement for the industries in Schedule 1 for 1930 is contained in Table I. To show the standing for the year, estimates have to be made of adjustments of assessments according to actual pay rolls and on the retroactive rates (the assessments for the year being first levied on an estimate of pay roll and at a provisional rate), and estimates also have to be made of compensation and medical aid still to be awarded for accidents happening during the year which have not yet been finally disposed of by reason of the injured workman being still under medical treatment or reports not being received. These estimates contain also all liabilities for claims of previous years yet outstanding and provision for claims of prior years which may subsequently be adjusted. Final figures for the year 1930 will be shown in the next subsequent report in the same manner as the final figures for 1929 are shown in Table 15 of this report.

The difference is to be noted between the amount of compensation and medical aid awarded for the year's accidents and the amount awarded during the year. The latter is partly for the prior year's accidents, while upon the other hand it does not cover all the liability for the current year's accidents. The more correct system of charging each year as far as possible with its own accidents, and for that purpose keeping the year's accounts open till the end of the subsequent year, has been adopted, rather than the looser method of taking the amount awarded during the year as the cost of the year's accidents and leaving always an outstanding liability unprovided for. For the purpose of information and comparison, however, the amounts awarded during the year are shown in Chapter III.

Accounts for Each Class

The industries in Schedule 1 are divided into classes, and as each class (subject to any transfer that may be made to it from the Disaster Reserve in any case of undue burden) bears its own accident cost—the employers in the class being in effect a mutual insurance association—separate accounts have to be kept for the different classes. Each class is credited with its own assessments, its share of interest and other income, and with any transfer made to it from Disaster Reserve, or credit from any other source, and is charged with the cost of its own accidents, its share of administration expenses, the cost of its safety association if it has one, and with its share of any amount set aside for Disaster Reserve.

The figures for each class, and the provisional surplus or deficit for the year, and the balance forward from prior years, and the provisional surplus or deficit for all years, are shown in Table 1. The final figures for each class and also the figures for the different groups within the classes (as in Table 15) will be shown in the next report. The assessments are fixed according to the accident cost and other expenses and charges in each class and group and having regard to the other income and credits.

The classes are numbered and the nature of the industries in each is shown at the bottom of Table 1 and full enumeration of the industries will be found in Schedule 1 of the Act and in the Board's rate book the latter also showing the grouping within the class.

Assessments and Other Credits

The total assessments in all the classes of Schedule I for the year 1930, including estimated adjustments, amounted to $6,796,223.53. In assessments are included collections for default in making returns or payments and interest for under and over estimate of pay roll. The other income and credits for the year consisted of interest received other than credited to the Pension Fund, Silicosis Fund, and Compensation Deferred, as shown in Chapter IV; reimbursement for veteran cases, received from the Department of Pensions and National Health; cost of accidents collected under Section 105 for failure to furnish pay roll prior to accident; recovery from third parties under Section 8; collections under Section 112 (3) from employers for failure to furnish particulars of accidents; and assessments under Section 83(4) for extraordinary accident experience. Other income and credits amounted to $260,482.99, making a total of $7,056,706.52, of which $123,661.83 is to be refunded for merit rating. The net income and credits for the year are, therefore, $6,933,044.69.

Compensation and Other Charges

The compensation for Schedule 1 industries for the year, including estimate for what is still to be awarded for accidents happening during the year and for adjustment of prior years' accidents, amounted to $5,164,301.35; the medical aid, including estimate for what is outstanding, amounted to $1,366,321.69; the administration expenses for Schedule 1, including $24,973.15 for mine rescue work, amounted to $289,855.17; and $146,929.22 was paid to employers' safety associations. The total expenditures and charges for the year were $6,967,407.43.

The provisional deficit for the year was $34,362.74. The balance forward from prior years was a surplus of $1,550,661.35, which, added to the deficit for the year, makes a net provisional surplus of $1,516,298.61 at December 31, 1930.

Number of Employers

The total number of employers listed in Schedule 1 at the end of 1930 was 23,912, as compared with 24,078 at the end of 1929. The number in each class and group of industry is shown in Table 2.

Wage Expenditure

The estimated total wage expenditure in Schedule 1 industries for the year 1930, calculated on provisional figures, is $485,262,000, as compared with $543,455,000 in 1929. The amounts for the different classes of industry are shown in Table 3.

The Board has no similar data for Schedule 2 and Crown industries as in these the employers pay for the accidents to their own workmen and are not required to make pay roll returns or pay assessments upon them as in Schedule 1. The pay roll would probably be about one-third that of Schedule 1.

Average Rates of Assessment

Assessments in Schedule 1 are in the form of a percentage of pay roll and the average rate or percentage over all the classes actually paid by the employers can be ascertained by relating the total assessments to the total wage expenditure. This, on the provisional figures, gives an average rate of assessment for 1930 of $1.40 on every $100 of pay roll. The average over all years since the commencement of the Act was $1.18.

TABLE 1

PROVISIONAL FINANCIAL STATEMENT FOR SCHEDULE 1, BY CLASSES, AS AT DECEMBER 31, 1930

Class	INCOME AND CREDITS (Actual and Estimated)					EXPENDITURE AND CHARGES (Actual and Estimated)									Adjusted Figures up to Dec. 31, 1929	Estimated Unadjusted Outstanding as at Dec. 31, 1930	PROVISIONAL BALANCE ON FIGURES IN TWO PRECEDING COLUMNS	Class
	Collected on Provisional Assessments	Estimated Adjustments of Assessments	Interest Secs. 8, 105, 112 (3), Etc.	Assessment Refunds on account of Merit Rating	TOTAL	Compensation Paid, other than Pensions	Transferred for Pensions Awarded	Compensation Awarded, Payment Deferred	Compensation Estimated Outstanding	Medical Aid Paid	Medical Aid Estimated Outstanding	Administration Expenses and Mine Rescue Work	Paid to Safety Associations	TOTAL				
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	
1	561,471 18	135,200 00	8,580 26	18,293 16	686,958 28	182,890 81	64,523 54	6,254 52	215,397 69	86,147 09	52,353 52	24,574 18	25,200 00	657,341 35	—149,290 27	29,616 93	—119,673 34	1
2	293,900 26	—19,896 00	14,964 64	14,917 44	274,051 46	82,129 95	61,528 00	1,380 00	89,403 98	45,915 41	13,616 84	10,365 06	12,130 00	316,469 24	76,478 49	—42,417 78	34,060 71	2
3	114,801 86	—12,494 20	2,156 52	581 88	103,882 30	30,867 89	17,645 00	1,695 00	21,960 79	12,813 41	5,676 11	4,659 75	3,304 70	98,622 65	—18,052 03	5,259 65	—12,792 38	3
4	211,116 48	—35,942 98	7,074 43	2,312 58	179,935 35	61,103 17	28,391 00	1,175 00	44,543 13	21,172 09	12,630 99	8,117 45	5,756 88	182,889 71	9,438 23	—2,954 36	6,483 87	4
5	674,037 08	62,355 56	41,975 05	8,376 01	769,991 68	187,423 03	130,484 95	3,065 00	305,392 97	59,036 11	97,523 10	**48,735 90	....	831,661 06	535,968 93	—61,669 38	474,299 55	5
6	241,911 17	—187 43	15,303 05	6,941 34	250,085 45	57,498 34	26,270 00	2,025 00	156,215 11	23,213 25	14,538 29	9,728 18	6,899 22	296,387 39	157,345 39	—46,301 94	111,043 45	6
7	118,317 12	—30,205 39	9,965 54	3,196 32	94,880 95	24,119 63	40,345 00	....	29,385 33	10,130 64	13,331 85	4,341 96	3,079 32	124,733 73	141,268 29	—29,852 78	111,415 51	7
8	151,450 25	—12,115 26	5,246 40	3,593 22	140,988 17	43,250 90	11,702 42	230 00	28,629 00	22,149 47	7,157 25	4,951 47	3,511 58	121,582 09	26,966 86	19,406 08	46,372 94	8
9	420,505 27	—31,176 85	15,241 79	14,858 93	389,711 28	81,383 62	69,537 00	335 00	101,831 41	46,109 45	24,775 79	21,569 90	15,297 36	360,839 53	74,717 14	28,871 75	103,588 89	9
10	308,831 34	—21,632 61	12,778 96	2,836 62	297,141 07	87,022 72	55,307 00	4,665 00	80,791 69	46,493 15	19,627 72	12,226 23	8,670 84	314,804 35	90,996 14	—17,663 28	73,332 86	10
11	360,390 78	533 48	9,617 32	7,966 05	362,575 53	99,857 31	80,691 20	250 00	81,330 50	41,556 65	23,975 56	15,127 20	10,728 20	353,516 62	5,855 97	9,058 91	14,914 88	11
12	164,635 89	29,791 00	6,446 69	1,853 09	199,020 49	61,513 21	39,563 00	....	52,834 66	31,651 44	15,766 62	5,841 30	4,142 65	211,312 88	72,279 36	—12,292 39	59,986 97	12
13	110,978 19	—18,288 18	4,604 28	1,293 24	96,001 05	17,611 80	14,466 00	155 00	18,618 34	7,399 63	6,150 63	4,649 82	....	69,051 22	—9,263 73	26,949 83	17,686 10	13
14	62,302 33	6,000 00	1,661 50	710 27	69,253 56	12,956 79	12,020 00	250 00	17,152 17	8,359 15	2,235 59	2,291 00	1,624 75	56,889 45	—2,722 64	12,364 11	9,641 47	14
15	284,679 51	—19,560 98	9,696 40	2,049 36	272,765 57	84,322 50	39,258 00	600 00	61,197 02	44,208 38	14,215 04	11,436 40	8,110 70	263,348 04	28,167 29	9,417 53	37,584 82	15
16	161,180 33	—58,383 32	7,837 26	1,492 58	109,141 69	28,681 47	10,337 00	950 00	32,150 38	13,032 16	5,991 16	5,030 47	3,567 60	99,740 24	43,737 03	9,401 45	53,138 48	16
17	99,095 45	170 85	6,252 06	1,490 58	104,027 78	27,637 91	15,723 00	....	32,091 48	14,282 63	9,545 55	2,908 05	2,062 38	104,251 00	74,579 61	—223 22	74,356 39	17
18	81,482 60	—20,422 76	3,108 30	938 34	63,229 80	24,567 51	2,544 00	....	18,767 00	14,460 94	3,683 39	3,181 30	2,256 17	69,460 31	24,656 38	—6,230 51	18,425 87	18
19	72,692 68	42,927 76	1,687 65	52 92	117,255 17	27,275 02	37,526 00	1,300 00	26,777 95	14,003 52	10,942 05	2,749 65	1,950 05	122,524 24	25,868 21	—5,269 07	20,599 14	19
20	262,441 33	1,261 38	9,466 74	2,223 30	270,946 15	69,422 54	8,900 40	....	87,367 50	28,007 68	21,198 10	12,091 80	....	226,988 02	7,979 37	43,958 13	51,937 50	20
21	335,207 08	96,262 10	13,524 39	5,616 78	439,376 79	117,168 49	84,521 00	225 00	147,719 07	47,558 07	39,850 32	15,677 70	....	452,719 65	21,819 75	—13,342 86	8,476 89	21
22	113,434 00	13,749 68	3,782 60	4,715 25	126,251 03	21,848 22	28,874 00	....	27,497 91	10,296 93	9,258 10	3,993 00	8,600 00	110,368 16	17,133 83	15,882 87	33,016 70	22
23	332,831 52	69,026 26	19,906 55	17,352 57	404,411 76	102,641 81	86,830 00	960 00	137,524 54	34,486 38	47,769 72	12,878 05	2,928 67	426,019 17	247,460 74	—21,607 41	225,853 33	23
24	894,721 56	186,836 16	29,604 61	....	1,111,162 33	291,680 01	86,536 80	2,125 00	443,683 25	121,408 00	90,616 77	42,729 35	17,108 15	1,095,887 33	47,273 01	15,275 00	62,548 01	24
All	6,432,415 26	*363,808 27	†260,482 99	123,661 83	6,933,044 69	‡1,824,874 65	1,053,524 31	27,639 52	2,258,262 87	803,891 63	562,430 06	289,855 17	146,929 22	6,967,407 43	1,550,661 35	—34,362 74	1,516,298 61	All

*Adjusted on acual pay rolls and retroactive rates.

†Includes interest, $232,190.79; Sec. 8, $8,338.37; Sec. 105, $3,915.01; Sec. 112 (3), $352.04; reimbursement from D. P. & N. H., $15,686.78.

‡Includes Rehabilitation, $32.00.

**Includes Mine Rescue Work, $24,973.15.

Class Numbers of Industries

1. Lumbering.
2. Pulp and paper mills.
3. Furniture manufacturing, etc.
4. Planing mills, etc.
5. Mining and explosives.
6. Brick manufacturing, quarrying and glass works.
7. Rolling mills, etc.
8. Foundries, etc.
9. Fabrication structural steel, etc.
10. Metal articles, jewellery manufacturing, etc.
11. Agricultural implements, etc.
12. Gas, petroleum, paint, drugs, soap, etc.
13. Milling.
14. Abattoirs, etc.
15. Bakeries, canning, liquors, and tobacco.
16. Tanneries, leather and rubber goods.
17. Textiles.
18. Clothing, power laundries, etc.
19. Printing and stationery.
20. Teaming, cartage, coal and wood yards, etc.
21. Road construction, etc.
22. Electric power, etc.
23. Steel construction, railway and canal construction, dredging, fishing, etc.
24. Building.

TABLE 2

NUMBER OF FIRMS IN SCHEDULE 1, BY CLASSES AND GROUPS, DECEMBER 31, 1930

Class	Group 0	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8	Group 9	TOTALS
1	118	107	1,107								1,332
2	40	19	43								102
3	137	35	27	121							320
4	366	50	74	23	121						634
5	32	105	6	132		10	24	10			319
6	88	118	9	164	69	135	136				719
7	5	9									14
8	97	8	57	39							201
9	19	13	1	15	165	22					235
10	299	298	33	52	56	28	173	123			1,062
11	48	921	68	2							1,039
12	57	244	109	22	237						669
13	561	138									699
14	120										120
15	322	281	79	299	73	396	36				1,486
16	55	100	80	35	37						307
17	126	132	53								311
18	1,061	175									1,236
19	306	545	47	57							955
20	1,313	1,039									2,352
21	455	210									665
22	441										441
23	92	73	377								542
24	959	444	1,213	466	1,216	1,177	357	164	1,809	347	8,152
All											23,912

TABLE 3

ESTIMATE OF WAGE EXPENDITURE, SCHEDULE 1, BY CLASSES, FOR 1930

Class	Wage Expenditure
1	$16,000,000
2	16,680,000
3	11,560,000
4	11,674,000
5	28,589,000
6	12,329,000
7	10,471,000
8	12,920,000
9	25,914,000
10	40,505,000
11	39,797,000
12	24,223,000
13	6,933,000
14	6,876,000
15	38,311,000
16	21,951,000
17	22,802,000
18	28,628,000
19	28,006,000
20	13,230,000
21	13,453,000
22	6,009,000
23	8,253,000
24	40,148,000
TOTAL	$485,262,000

CHAPTER II

SCHEDULE 2 INDUSTRIES DURING 1930

Table 4 is a statement of the compensation awarded and the moneys handled during 1930 in Schedule 2 industries (in which the employer is individually liable for accidents to his workmen). Dominion Crown Cases under the Act by Dominion legislation, and Provincial Crown Cases referred to the Board for adjustment, are included.

The total amount of compensation awarded in Schedule 2 industries and Crown cases during 1930 was $1,144,216.52. Of this amount, $217,094.67 was for workmen of municipal corporations, $268,421.76 for steam railroads, $19,705.53 for electric railways, $61,717.62 for navigation companies, $13,274.47 for express and sleeping car companies, $29,341.35 for telephone and telegraph companies, $477,700.84 for Dominion Crown cases, and $56,960.28 for Provincial Crown cases. Of the total amount awarded, $594,439.45 was for pensions in pension cases, and $549,777.07 for cases not pension cases and for compensation not pensions in pension cases.

In pension cases, except in the case of municipal or government bodies or departments thereof, not so desiring, deposits must be made by employers in Schedule 2 industries. Particulars of these are given under "Deposits under Section 28." Under "Claimants' Moneys" are included moneys held by the Board under awards in which in the interest of the claimant, or for some other reason, payment of the amounts held is deferred to a later date, as in the case of minors. "Deposits under Section 32" are amounts deposited with the Board to enable the Board to make prompt payments without waiting for receipt of cheque from employer.

Employers in Schedule 2 are assessed their share of the expense of administration as set out in Table 8. For 1930 that share amounted to $25,315.57, as compared with $24,142.43 in 1929, and $23,816.76 in 1928. Proportionate to the amount of compensation awarded, administration expenses in Schedule 2 and Crown cases were 4.21 per cent. in 1930, as compared with 3.68 per cent. in 1929, and 3.33 per cent. in 1928.

Further information as to Schedule 2 funds, and particulars of Schedule 2 investments, are given in Chapter IV and in Tables 9 and 14, and in the Appendix.

TABLE 4

STATEMENT FOR SCHEDULE 2 DURING 1930

SCHEDULE 2 AWARDS

	Awards Not Pensions	Pensions	TOTALS
Municipal Corporations, etc.	$107,392 80	$109,701 87	$217,094 67
Steam Railroads	130,874 76	137,547 00	268,421 76
Electric Railways	19,705 53	....	19,705 53
Navigation Companies	28,733 62	32,984 00	61,717 62
Express and Sleeping Car Companies	6,264 47	7,010 00	13,274 47
Telephone and Telegraph Companies	8,185 35	21,156 00	29,341 35
All Others	....	....	....
Dominion Crown Cases	205,331 26	272,369 58	477,700 84
Provincial Crown Cases	43,289 28	13,671 00	56,960 28
TOTALS	$549,777 07	$594,439 45	1,144,216 52

SCHEDULE 2 FUNDS

Deposits under Section 28

Cash in bank and invested, January 1, 1930	$3,537,455 90	
Deposits received from employers	178,146 08	
Interest received	192,633 27	
Paid to pensioners		$329,814 52
Deposits returned to employers		24,253 75
Cash in bank and invested, December 31, 1930		3,554,166 98
	$3,908,235 25	$3,908,235 25

Claimants' Moneys

Cash in bank and invested, January 1, 1930	$31,471 22	
Deposits received from employers	2,355 00	
Interest received	1,478 96	
Paid to claimants—as principal		$6,176 53
—as interest		151 84
Cash in bank and invested, December 31, 1930		28,976 81
	$35,305 18	$35,305 18

Deposits under Section 32

Cash in bank and invested, January 1, 1930	$47,396 86	
Deposits received from employers	810,589 94	
Payments made—Compensation and Medical Aid		$803,088 45
Deposits returned to employers		3,718 33
Cash in bank, December 31, 1930		51,180 02
	$857,986 80	$857,986 80

TOTALS OF FUNDS

Cash in bank and invested, January 1, 1930	$3,616,323 98	
Deposits received from employers	991,091 02	
Interest received	194,112 23	
Payments made		$1,139,231 34
Deposits returned to employers		27,972 08
Cash in bank and invested, December 31, 1930		3,634,323 81
	$4,801,527 23	$4,801,527 23

CHAPTER III

WORK HANDLED DURING 1930

This chapter deals with the work handled during 1930 and with the administration of the Act generally during the year. Particulars are given in Tables 5 to 8.

The figures are for what has been dealt with during 1930 without regard to the year in which the accidents dealt with occurred, while as explained in Chapter I the figures in Chapter I and Chapter V are for the accidents happening during the year.

Benefits Awarded During the Year

The total amount of compensation awarded during 1930 was $6,086,972.77, of which $4,942,756.25 was in Schedule 1 industries, $609,555.40 in Schedule 2 industries, and $534,661.12 in Crown cases; there was also paid for medical aid in Schedule 1 during the year $1,336,046.05, making the total benefits awarded during the year $7,423,018.82. In Schedule 2 and Crown cases medical aid is provided directly by the employer and no figures are available.

The benefits awarded during each year and the total since the commencement of the Act are as follows:

Year	Schedule 1 Compensation	Schedule 1 Medical Aid	Schedule 2 and Crown Compensation	Total Benefits
1930	$4,942,756 25	$1,336,046 05	$1,144,216 52	$7,423,018 82
1929	5,346,621 19	1,385,524 62	1,280,011 97	8,012,157 78
1928	4,565,688 56	1,166,507 54	1,335,750 83	7,067,946 93
1927	3,930,417 59	1,062,859 64	1,091,377 64	6,084,654 87
1926	3,664,039 94	988,486 70	1,168,825 26	5,821,351 90
1925	3,635,530 27	875,836 01	1,054,077 11	5,565,443 39
1924	4,052,287 77	835,956 60	1,234,575 97	6,122,820 34
1923	4,036,170 26	788,905 90	1,348,785 58	6,173,861 74
1922	3,417,101 61	692,819 94	1,582,975 06	5,692,896 61
1921	3,858,017 50	662,793 89	1,668,452 10	6,189,263 49
1920	5,113,149 77	703,705 66	1,963,389 82	7,780,245 25
1919	2,808,638 65	386,298 51	997,922 77	4,192,859 93
1918	2,751,137 45	369,346 37	763,511 02	3,883,994 84
1917	2,286,954 99	*83,514 07	623,556 37	2,994,025 43
1916	1,553,653 38	†	451,709 93	2,005,363 31
1915	692,389 09	†	200,932 03	893,321 12
Totals	$56,654,554 27	$11,338,601 50	$17,910,069 98	$85,903,225 75

*Half year only. †No provision for medical aid.

The increase in benefits from the early years is largely by reason of increase in wages, compensation being for the most part a percentage of wages, and additional industries have been covered, and some material changes were made in compensation. The large total for 1920 is by reason of the retroactive increase in widows' and children's pensions, and the small amount awarded during 1915 is by reason of many 1915 accidents not being, nor capable of being, finally disposed of till the following year. The amount of benefits awarded for each year's accidents as distinguished from the amount awarded during the year is shown in Chapter V.

Accidents Reported during the Year

During 1930, 69,267 accidents were reported. These included some not serious enough to involve payment of either compensation or medical aid and for which no claim was made and others for which claims were made but which were not allowed by the Board.

At the close of the year there were 1,185 claims in assembly, as compared with 1,988 at the end of 1929, notice of the accident having been given but reports necessary to deal with the case not yet having been received.

The number of accidents reported each year and the total number since the commencement of the Act are as follows:

Year	Schedule 1	Schedule 2	Crown	Totals
1930	61,490	4,486	3,291	69,267
1929	76,029	6,008	5,066	87,103
1928	69,011	5,815	4,572	79,398
1927	62,063	5,412	4,504	71,979
1926	57,032	4,942	3,942	65,916
1925	50,883	5,079	4,050	60,012
1924	49,558	4,916	4,201	58,675
1923	51,655	6,080	3,374	61,109
1922	42,139	7,124	1,148	50,411
1921	36,272	7,666	1,253	45,191
1920	46,177	7,222	1,452	54,851
1919	36,236	7,918	106	44,260
1918	40,662	7,113	73	47,848
1917	30,701	5,813	18	36,532
1916	21,269	4,806	17	26,092
1915	13,878	3,144	11	17,033
All Years	745,055	93,544	37,078	875,677

Accidents Paid For during the Year

Table 5 shows the number of accidents in which compensation or medical aid was paid during the year. The total number was 61,795, as compared with 73,815 during 1929. The 61,795 comprised 427 deaths, 15 permanent total disability cases, 2,959 permanent partial disability cases, 28,220 temporary disability cases, and 30,174 cases in which medical aid only was paid. Schedule 2 and Crown cases involving medical aid only, which are a large proportion of the accidents reported, are not included as accidents paid for as the medical aid is furnished directly by the employer.

The number of accidents in which compensation or medical aid was awarded each year since the commencement of the Act is as follows:

Year	Schedule 1	Schedule 2	Crown	Totals
1930	56,715	2,723	2,357	61,795
1929	68,195	2,883	2,737	73,815
1928	61,384	2,723	2,425	66,532
1927	55,894	2,741	2,443	61,078
1926	52,199	2,489	2,182	56,870
1925	47,782	2,734	2,217	52,733
1924	46,616	2,820	2,475	51,911
1923	47,873	3,849	1,916	53,638
1922	37,172	4,572	765	42,509
1921	34,271	5,161	834	40,266
1920	42,693	4,444	714	47,851
1919	34,400	4,517	153	39,070
1918	36,565	4,335	30	40,930
*1917	25,277	3,406	19	28,702
*1916	15,370	2,825	3	18,208
*1915	8,328	1,494	7	9,829

*Cases involving medical aid only not covered till July 1, 1917.

Awards Changed

In addition to claims compensated, as show in Table 5, the Board in 1930 reopened for further award 523 claims which had been settled previously.

Cheques, Assessments, Mail and Callers

In all 258,222 cheques were issued during the year, an average of about 852 daily, and there were 31,344 assessments made, including refunds. About 4,800 pieces of mail were handled daily, and the average number of office callers was 79 a day.

Receipts and Payments

The receipts and payments during the year are shown in Table 6, the statement for Schedule 2 including Crown cases. Explanation of the items and the funds referred to will be found in other parts of the report. A summary of receipts and payments since the commencement of the Act is given in the Appendix.

Payments to Safety Associations

The safety or accident prevention associations are organizations of employers established under the authority of the Act by the employers in twenty out of the twenty-four classes of industry. They are under the management of the employers, but the expenses are paid by the Board out of the accident fund.

The total amounts so paid are set out in Table 7, which table also shows the amount paid out on account of mine rescue work in Class 5.

Administration Expenses

The administration expenses of the Board analyzed under the different headings, are shown in Table 8. The gross adminstration expenses during 1930 were $354,629.73, which included special statistical services for which refunds have been received of $7,630.00, making the total administration expenses $346,999.73, as compared with $341,083.58 during 1929. The employers pay the whole expense of the administration of the Act. The amount is divided, according to the accidents handled, among Schedule 1 (Accident and Silicosis Funds), Schedule 2, and Dominion and Provincial Crown.

The amount charged to the Silicosis Fund was $33,992.13, and to Schedule 1 employers, $264,882.02, to Schedule 2, $25,315.57, to Dominion Crown, $17,719.46 and to Provincial Crown, $5,090.55.

The cost of office furniture, fixtures, and equipment, including permanent equipment, has always been charged to administration expenses in the year in which payment therefor was made, and no entry for which has ever been made in the standing of the funds. The value of this furniture and equipment at the present time is estimated at about $25,000.

The total administration expenses for 1930 were 4.67 per cent. of the benefits awarded. The administration expenses in Schedule 1 for 1930 were 4.76 per cent. of the benefits awarded, those in Schedule 2 and Crown being 4.21 per cent.

TABLE 5

COMPENSATION, MEDICAL AID, AND ACCIDENTS PAID FOR, DURING 1930

Compensation Awarded during 1930

Schedule 1	$4,942,756 25
Schedule 2	609,555 40
Crown Cases	534,661 12
Total	$6,086,972 77

Medical Aid Paid For during 1930

Schedule 1	$1,336,046 05
Schedule 2	furnished by employer
Crown Cases	furnished by employer

Accidents Paid For during 1930

	Medical Aid only	Temp. Dis.	Perm. Partial Dis.	Perm. Total Dis.	Death	TOTALS
SCHEDULE 1—						
Full Compensation	......	21,392	2,624	13	301	24,330
Part Compensation	......	2,193	......	......	18	2,211
Medical Aid only	30,174	......	......	......	......	30,174
Totals	30,174	23,585	2,624	13	319	56,715
SCHEDULE 2—						
Full Compensation	......	2,260	175	......	53	2,488
Part Compensation	......	233	......	......	2	235
Totals	......	2,493	175	......	55	2,723
CROWN CASES—						
Full Compensation	......	1,985	160	2	52	2,199
Part Compensation	......	157	......	......	1	158
Totals	......	2,142	160	2	53	2,357
GRAND TOTALS	30,174	28,220	2,959	15	427	61,795

TABLE 6

STATEMENT OF RECEIPTS AND PAYMENTS DURING 1930

Schedule 1

Receipts

Cash in Banks, Jan. 1, 1930:		
Can. Bank of Commerce	$325 78	
Royal Bank of Canada	715 13	
		$1,040 91
Net Assessments, Penalties, etc., collected:		
Gross Assessments....	$7,941,993 23	
Under Sec. 8	9,306 62	
Under Sec. 105.......	8295 97	
Under Sec. 112 (3)...	615 71	
From D.P. and N.H..	15,686 78	
	$7,975,898 31	
Less:		
Assessments and Penalties refunded........	$89,379 91	
Merit Rating Refunds...	106,290 24	
	$195,670 15	
		7,780,228 16
Interest....................		1,137,877 85
From Schedule 2 employers and Dominion Crown for administration expenses account of prior years paid out of Schedule 1 in 1929...		46,811 14
Principal returned from investments.	$1,072,515 82	
Decrease in value of investments by amortization of premiums.	67,269 92	
		1,139,785 74
Silicosis....................		223 29
Special Statistical Services...		7,630 00
		$10,113,597 09

Payments

Overdraft—Dominion Bank, Jan. 1, 1930...........		$260,903 18
Compensations paid other than pensions and Compensation Deferred.......		2,927,897 73
Pensions Paid.............		1,685,208 41
Deferred Compensation Paid		53,215 29
Rehabilitation Paid.........		4,397 67
Medical Aid Paid..........		1,327,042 65
Silicosis Paid..............		103,689 01
Paid under Section 8.......		968 25
Mine Rescue Work Paid....		24.973 15
Administration Expenses....		354,629 73
Paid to Safety Associations..		146,929 22
Invested......	$2,992,229 50	
Increase in value of Investments by accumulation of discounts.	34,020 61	
		3,026,250 11
Cash in Banks, Dec. 31, 1930:		
Canadian Bank of Commerce	$1,351 49	
Royal Bank.	15,506 72	
Dominion Bank.....	180,634 48	
		197,492 69
		$10,113,597 09

TABLE 6—Continued

Schedule 2

RECEIPTS		
Cash in Imperial Bank, Jan. 1, 1930		$81,337 31
From Employers for Deposits under Section 28		178,146 08
From Employers for Claimants' Moneys		2,355 00
From Employers for Deposits under Section 32		810,589 94
Interest		194,112 23
Principal returned from investments	$ 0 00	
Decrease in value of investments by amortization of premiums	1,410 81	
		1,410 81
		$1,267,951 37

PAYMENTS		
To Claimants out of Deposits under Section 28		$329,814 52
Deposits Returned to Employers under Section 28		24,253 75
To Claimants out of Claimants' Moneys:		
Principal	$6,176 53	
Interest	151 84	
		6,328 37
Paid out of Deposits under Section 32:		
For Compensation	$768,746 57	
For Medical Aid	34,341 88	
		803,088 45
Deposits Returned to Employers under Section 32		3,718 33
Invested	$835 06	
Increase in value of Investments by accumulation of discount	6,529 98	
		7,365 04
Cash in Imperial Bank, Dec. 31, 1930		93,382 91
		$1,267,951 37

TABLE 7

PAYMENTS TO SAFETY OR ACCIDENT PREVENTION ASSOCIATIONS, 1930

Association	Class	Total Payments	
Lumbermen's Safety Association	1	$25,200 00	
Ontario Pulp and Paper Makers' Safety Association	2	12,130 00	
Industrial Accident Prevention Associations	3, 4, 6, 7, 8, 9, 10, 11, 12, 14, 15, 16, 17, 18, 19, 23, 24.	100,999 22	
Electrical Employers' Association of Ontario	22	8,600 00	
TOTAL			$146,929 22

PAYMENTS FOR MINE RESCUE WORK (CLASS 5), 1930

Construction and maintenance of Stations, Salaries, and Supplies	$24,973 15

TABLE 8

ANALYSIS OF ADMINISTRATION EXPENSES DURING 1930

Salaries of Board and Staff	$262,962 65	
Travelling Expenses of Board and Staff	9,899 25	
Printing, Stationery, and Office Supplies	21,783 76	
Postage and Excise Stamps	21,280 95	
Telephone, Telegraph, and Express	1,206 85	
Legal Expenses, Witness Fees, etc	1,123 59	
Medical Examinations, X-ray Supplies, etc	1,379 15	
Workmen's Travelling Expenses	185 35	
Insurance and Security Service	3,833 89	
Auditors' Services, under instructions of Attorney-General	2,500 00	
Rent of Premises, Electric Current, and Miscellaneous Services	24,595 28	
Permanent Equipment	3,875 60	
Sundry Expenses	3 41	
Gross Administration Expenses, 1930	$354,629 73	
Received for Special Statistical Services	7,630 00	
Total Administration Expenses		$346,999 73
Charged to Silicosis Fund	$33,992 13	
Chargeable to Dominion of Canada	17,719 46	
Chargeable to Province of Ontario	5,090 55	
Chargeable to Schedule 2 Employers	25,315 57	
Chargeable to Schedule 1 Employers	264,882 02	
		$346,999 73

CHAPTER IV

CONDITION OF FUNDS

A general statement of the condition of the funds in Schedule 1 and in Schedule 2 is contained in Table 9, and particulars of the various funds and of the Board's investments are given in Tables 10 to 14. A summary since the commencement of the Act will be found in the Appendix.

Schedule 1 Funds

The Schedule 1 funds are known and referred to in the Act as the "Accident Fund." They comprise, in addition to current funds out of which temporary payments of compensation, medical aid, and administration expenses are paid, the Pension Fund, Disaster Reserve, and Compensation Deferred. The standing of the Accident Fund, showing assets and liabilities, at December 31, 1930, is shown in Table 9. The balance of assets in excess of liabilities at that date was $2,040,837.95, being $269,498.16 Disaster Reserve, $255,041.18 accrued interest on investments, and $1,516,298.61 standing at the credit of the classes December 31, 1930. This is exclusive of office furniture and equipment mentioned in Chapter III.

Pension Fund

The Pension Fund, representing the outstanding pension liability, comprises the largest part of the funds standing to the credit of Schedule 1. The purpose of the Pension Fund is to take care of future payments of pensions which have already been awarded. Actuarial tables (published as an appendix to the report for 1922), embodying the contingencies of death and remarriage, have been compiled to show for each age and kind of pension the average amount (sometimes referred to as capitalized value) necessary to complete pension payments. When a pension is awarded this average amount is transferred from current funds to the Pension Fund. All payments of pensions are made from the Pension Fund. Since the amount transferred in any one instance is the average amount required, no retransfer is made should a residue be left at the expiry of the pension, nor is any additional transfer made should the amount be exhausted before expiry of the pension.

Retransfer from Pension Fund

During the years 1923 and 1924 an actuarial survey of the Board's pension experience and revaluation of the pension liability was made, all existing pensions being revalued. As a result the Pension Fund was found to be a little in excess of what the experience indicated to be necessary. As at date of January 1,1924, a retransfer of $600,000 was accordingly made from the Pension Fund to current funds, being distributed among the different classes of industry in proportion to the amount of Pension Fund to the credit of each class.

As of date October 31, 1925, actuarial revaluation of all outstanding pension fund obligations was made, the Board's actuarial tables being used. To the liability for each class thus ascertained was added a surcharge of two per cent.

to allow for possible divergence of actual from expected mortality. Deduction was made of the surcharged liability in total for all the classes from the balance in the Pension Fund and the difference was retransferred to the current funds, proportional to each class according to the balance in the Pension Fund. The sum transferred amounted to $427,214.62.

Further revaluation was made as of dates October 31, 1926, October 31, 1927, October 31, 1928, October 31, 1929, and October 31, 1930. On October 31, 1930, the Pension Fund showed a balance of $18,296,625.54, with liabilities of $18,191,965.81, an excess of funds over liabilities of $104,659.73.

Particulars of Pension Fund

Table 10 gives particulars of the Pension Fund for each class. The balance in the fund at the commencement of 1930 was $17,352,229.71; $1,912,110.95 was transferred during the year for pension awards; $884,200.08 interest (at the rate of five per cent., per annum, compounded half-yearly, which is the basis used in computing capitalized values of pensions) was added; and $1,685,208.41 was paid for pensions. The balance in the fund at the end of the year was $18,463,332.33.

The transfers for pension awards during the year included $23,857.63 transferred from the Disaster Reserve to meet the extra cost of incurred disabilities superimposed upon previous disabilities, and $30,342.00 transferred from Silicosis Account to provide for pensions in cases of silicosis in Class 5.

Disaster Reserve

The Disaster Reserve is a fund set aside under the provisions of Section 99 (2) of the Act to meet any unforseen disaster or other circumstance which might unduly burden the employers in any class of industry. The fund has been accumulated by a transfer of one per cent. of the gross assessments up to the end of 1922, and for the year 1928. These are the only moneys set aside or held by the Board which do not directly cover liabilities actually incurred by reason of accidents which have already happened.

The standing of the Disaster Reserve is shown in Table 11. The balance at the end of 1930 was $269,498.16, $13,071.65 interest being added during the year to the $280,284.14 in the fund at the beginning of the year, and $23,857.63 transferred to the Pension Fund.

Compensation Deferred

The funds included under "Compensation Deferred" comprise compensation moneys held at interest for claimants in Schedule 1, payment being deferred to a future time by reason of the claimant being a minor or for other reason. The condition of the fund is shown in Table 12. At the beginning of the year the amount on hand was $115,141.51; deferred awards during the year amounted to $46,740.52, and $5,701.28 interest was added during the year; the payments during the year amounted to $53,215.29, of which $49,302.16 was for principal and $3,913.13 for interest, leaving a balance of $114,368.02 at the end of the year.

Silicosis Account

Table 13 gives particulars of the Silicosis Account which was established to take care of special assessments and payments in Class 5 necessitated by the addition of "Silicosis" contracted in mining operations to the list of industrial diseases under the Act, by amendment effective April 8, 1926. The balance in the account at the beginning of 1930 was $143,797.00; $223.29 was collected by assessment, and $2,714.05 was added as interest; withdrawals were $168,023.14 of which $81,951.38 was for compensation, $9,003.40 for medical aid, $39,990.96 for salaries and expenses in connection with examination of underground mine workers, $3,085.27 for salaries and expenses of Referee Board, and $33,992.13 was transferred to the Accident Fund for the expenses of handling claims and supervision. The deficit in the account December 31, 1930, was $21,288.80.

Investments

Particulars of the Board's investments are given in Table 14.

The total invested at the end of the year in Schedule 1 was $22,931,807.92, consisting of $20,790,302.37 value of investments at the beginning of the year, $3,026,250.11 invested during the year, $255,041.18 accrued interest (earned but not received), less $1,139,785.74 principal returned.

Particulars of each investment are shown in the list, including kind of investment, particular security, yield of interest, term, par value, book value, and accrued interest.

With the exception of short-date deposits of current funds intended for use before the current year's assessments are received, all investments consist of Province of Ontario bonds, municipal or municipally-guaranteed debentures, and Dominion of Canada guaranteed bonds.

The average rate of interest received on permanent investments in Schedule 1 during 1930 was approximately 5.10 per cent., as compared with 5.04 per cent. in 1929, and 5.07 per cent. received during 1928. Three per cent. is received on current bank balances.

Schedule 2 Funds

The funds handled by the Board in respect of Schedule 2 industries include employers' deposits for pensions required to be made with the Board under the provisions of Section 28 of the Act, temporary deposits or advances of money made by employers under Section 32 to facilitate prompt payment of claims, and claimants' moneys held by the Board in cases of awards payment of which by reason of the claimant being a minor or for other reason is deferred to a future time.

The standing of Schedule 2 funds at December 31, 1930, is shown in the latter part of Table 9, and the particulars and a list of Schedule 2 investments are given in Table 14.

At the end of 1930 the deposits held under Section 28 amounted to $3,554,166.98, deposits under Section 32 to $51,180.02, the amount of claimants' moneys held by the Board was $28,976.81, and the accrued interest, neither received nor apportioned, amounted to $34,725.67, making a total of $3,669,049.48, of which $3,540,940.90 was held in permanent investments, $93,382.91 was on deposit in the Imperial Bank, and $34,725.67 was interest accrued on investments but not yet payable.

The rate of interest on Schedule 2 funds during 1930 was 5.60 per cent., as compared with 5.56 per cent., during 1929, and 5.908 per cent., during 1928.

TABLE 9

STANDING SCHEDULE 1 ACCIDENT FUND AS AT DECEMBER 31, 1930

Assets		
Cash in Banks:		
Dominion Bank	$180,634 48	
Royal Bank	15,506 72	
Bank of Commerce	1,351 49	$197,492 69
Short Date Deposits		1,000,000 00
Investments		21,676,766 74
Accrued Interest on Investments		255,041 18
Due from Schedule 2 employers for Administration Expenses paid out of Schedule 1 Funds		25,558 72
Due from Dominion of Canada for Administration Expenses paid out of Schedule 1 Funds		17,825 89
Due from Province of Ontario for Administration Expenses paid out of Schedule 1 Funds		5,110 77
Assessments estimated to be due on adjustment of 1930 Pay Rolls (see Table 1)	$363,808 27	
Less:		
Merit Rating Refunds to be made	123,661 83	240,146 44
Due from Class 5 Employers for Silicosis Account paid out of Accident Fund		$21,288 80
		$23,439,231 23

Liabilities		
Compensation Deferred, other than Pensions		$114,368 02
Pension Liability		18,463,332 33
Compensation estimated outstanding		2,258,262 87
Medical Aid estimated outstanding		562,430 06
Assets in Excess of Liabilities:		
Disaster Reserve	$269,498 16	
Accrued Interest on Investments	255,041 18	
	$524,539 34	
Balance at Credit of Classes (Table 1)	1,516,298 61	2,040,837 95
		$23,439,231 23

STANDING SCHEDULE 2 FUNDS AS AT DECEMBER 31, 1930

Cash in Imperial Bank	$93,382 91
Investments	$3,540,940 90
Accrued Interest on Investments	34,725 67
	$3,669,049 48

Balance Employers' Deposits under Section 28	$3,554,166 98
Balance Employers' Deposits under Section 32	51,180 02
Claimants' Moneys held by Board	28,976 81
Accrued Interest on Investments	34,725 67
	$3,669,049 48

TABLE 10

PENSION FUND, SCHEDULE 1 BY CLASSES, DECEMBER 31, 1930

Class	Balance Forward from 1929	Pension Awards during 1930	Interest Received	Pension Payments	Balance as at Dec. 31, 1930	Class
	$ c.	$ c.	$ c.	$ c.	$ c.	
1	2,001,343 47	*105,827 34	99,340 36	183,957 02	2,022,554 15	1
2	960,289 48	91,740 78	48,618 91	91,572 73	1,009,076 44	2
3	255,177 57	20,791 00	12,800 84	25,433 90	263,335 51	3
4	620,720 44	62,288 25	31,462 05	60,783 85	653,686 89	4
5	2,143,909 33	†237,260 65	109,289 93	207,452 42	2,283,007 49	5
6	709,425 60	63,541 14	35,738 37	70,506 09	738,199 02	6
7	574,704 94	45,964 30	28,815 15	56,998 01	592,486 38	7
8	364,093 39	3,705 70	17,674 96	33,622 34	351,851 71	8
9	839,642 37	159,756 95	44,388 92	85,405 25	958,382 99	9
10	949,774 87	70,707 62	47,743 10	84,110 03	984,115 56	10
11	815,554 43	*129,537 22	42,627 55	76,594 86	911,124 34	11
12	539,308 73	76,837 96	27,758 15	58,837 16	585,067 68	12
13	391,347 71	36,307 00	19,821 25	35,940 63	411,535 33	13
14	180,991 48	18,901 40	9,175 05	18,413 00	190,654 93	14
15	680,981 41	85,659 57	34,860 16	70,430 92	731,070 22	15
16	444,144 67	25,593 35	22,223 61	35,913 09	456,048 54	16
17	391,882 25	20,377 65	19,452 54	35,646 65	396,065 79	17
18	98,200 47	9,692 05	4,989 35	8,982 79	103,899 08	18
19	230,445 26	51,128 00	12,397 73	22,231 52	271,739 47	19
20	371,837 90	48,856 40	19,115 57	37,349 00	402,460 87	20
21	679,541 25	123,800 39	35,790 90	68,921 36	770,211 18	21
22	354,935 31	30,331 12	17,797 78	37,079 34	365,984 87	22
23	1,077,434 22	*169,435 98	56,277 95	100,977 99	1,202,170 16	23
24	1,676,543 16	224,069 13	86,039 90	178,048 46	1,808,603 73	24
	17,352,229 71	1,912,110 95	884,200 08	1,685,208 41	18,463,332 33	

*Transferred from Disaster Reserve:

Class 1	$2,323 31
Class 11	7,776 80
Class 23	13,757 52

†Transferred from Silicosis Account:

Class 5	$30,342 00

TABLE 11

DISASTER RESERVE, DECEMBER 31, 1930

Disaster Reserve as at December 31, 1929		$280,284 14
Interest credited in 1930		13,071 65
		$293,355 79
Withdrawn account Class 1	$2,323 31	
" " " 11	7,776 80	
" " " 23	13,757 52	
		23,857 63
Amount as at December 31, 1930		$269,498 16

TABLE 12

COMPENSATION DEFERRED, DECEMBER 31, 1930

Balance in fund, December 31, 1929		$115,141 51
Compensation awarded, payment deferred, during 1930		46,740 52
Interest credited for 1930		5,701 28
		$167,583 31
Paid claimants during 1930:		
Principal	$49,302 16	
Interest	3,913 13	
		53,215 29
Balance December 31, 1930		$114,368 02

TABLE 13

SILICOSIS ACCOUNT, DECEMBER 31, 1930

Balance in fund, December 31, 1929		$143,797 00
Assessments collected under Class 5		223 29
Interest credited in 1930		2,714 05
		$146,734 34
Payments made:		
For Compensation	$81,951 38	
For Medical Aid	9,003 40	
For Salaries and Expenses	39,990 96	
To Accident Fund for handling Claims and Supervision	33,992 13	
For Salaries and Expenses of Referee Board	3,085 27	
		168,023 14
Debit Balance December 31, 1930		$21,288 80

TABLE 14

INVESTMENTS, DECEMBER 31, 1930

Schedule 1

Book Value of Investments, January 1, 1930	$20,790,302 37
Invested during year	3,026,250 11
	23,816,552 48
Less Principal returned	1,139,785 74
Book Value of Investments, December 31, 1930, Principal	22,676,766 74
Plus Accrued Interest to December 31, 1930	255,041 18
Total Book Value of Investments, December 31, 1930	$22,931,807 92

Schedule 2

Book Value of Investments, January 1, 1930	$3,534,986 67
Invested during year	7,365 04
	$3,542,351 71
Less Principal returned	1,410 81
Book Value of Investments, December 31, 1930, Principal	3,540,940 90
Plus Accrued Interest to December 31, 1930	34,725 67
Total Book Value of Investments, December 31, 1930	$3,575,666 57

LIST OF INVESTMENTS

SCHEDULE 1 FUNDS

Municipal Debentures

Security	Yield Rate (Per Cent.)	Term	Par Value	Book Value	Accrued Interest
			$ c.	$ c.	$ c.
Amherstburg	5.50	1931–1938	13,534 96	13,806 86	29 65
Belleville:	6.25	May 15, 1941	65,000 00	63,764 62	491 51
	5.35	Jan. 2, 1942	14,000 00	14,748 64	....
	5.35	Apr. 5, 1942	13,000 00	13,718 21	185 92
	5.30	May 1, 1952	120,000 00	123,061 49	1,103 02
	5.30	1947–1949	20,000 00	19,323 05	167 12
	5.041	1943–1954	156,000 00	146,200 74	1,769 45
	5.645	1946–1960	147,388 05	135,425 04	1,837 30
	5.798	1946–1950	17,856 38	16,322 12	146 70
	5.645	1945–1959	24,545 76	22,558 29	100 85
Bowmanville	5.27	1945–1949	41,035 25	39,809 40	1,371 60
Brampton:	5.50	1931–1934	6,212 80	6,284 61	13 60
	5.50	1931–1944	2,277 29	2,136 61	4 45
Brantford:	6.25	Dec. 31, 1942	10,000 00	8,538 15	....
	6.20	1931–1939	56,250 00	54,638 07	....
	5.972	1937–1947	52,200 00	52,319 71	....
	5.535	1940–1949	53,000 00	50,227 41	116 15
	4.95	1941–1953	13,000 00	13,804 78	31 34
	5	Dec. 31, 1950	5,000 00	4,372 43	....
Bridgeburg	5	1950–1956	13,403 01	14,308 15	401 90
Blind River (guaranteed by Province of Ontario)	4.70	1931–1948	37,392 57	36,803 63	1,124 75
Carleton Place	5.50	1931–1941	14,021 96	14,021 96	37 55
Collingwood (guaranteed by County of Simcoe)	5.45	1947–1951	191,000 00	180,853 49	784 90
Cornwall	5.20	1944–1953	51,862 79	53,696 79	1,437 95
Creemore (guaranteed by County of Simcoe)	5.375	1931–1934	1,963 64	1,992 06	39 05
Dundas	5.375	1931–1946	17,996 29	18,144 01	328 20
East York. Township:	5.446	1940–1965	172,187 29	162,100 79	1,438 81
	5.448	1940–1965	72,105 65	67,890 66	306 20
Essex, Village	5.50	1931–1934	2,414 29	2,385 97	80 70
Essex Border Utilities Commission	5.484	1942–1956	199,989 88	200,358 90	10,065 25
Etobicoke, Township:	5.017	1946–1949	45,000 00	47,502 96	1,356 17
	4.95	1940–1957	25,277 74	25,415 27	848 35
	5.19	1941–1957	71,000 00	69,416 77	593 30
	4.95	1940–1958	28,416 47	28,575 70	968 60
Fort William:	5.75	Feb. 1, 1944	25,000 00	23,258 39	523 97
	6.40	May 1, 1950	10,000 00	9,557 11	100 27
	5.125	Apr. 1, 1955	55,000 00	54,050 14	685 62
	4.91	1946 & 1951	69,924 85	70,662 20	296 95
	4.91	July 1, 1952	34,672 60	35,084 40	....
	4.91	July 1, 1947	42,751 00	43,182 92	....
	5.07	Apr. 1, 1959	76,000 00	75,194 74	947 40
Fort William (guaranteeing McKellar Hospital)	4.625	May 1, 1948	88,000 00	86,689 86	661 80
Forest Hill Village:	5.036	1943–1957	44,730 93	44,524 72	747 55
	5.15	1940–1948	112,061 49	110,656 41	460 50
	5.055	1931–1958	96,914 45	96,337 54	398 25
	5.75	1934–1939	64,034 46	61,955 83	526 30
	5.60	1940–1959	121,602 70	112,963 25	....
	5.60	1934–1949	56,007 44	53,934 36	122 75
	5.22	1944–1947	26,000 00	25,425 66	213 70

TABLE 14—Continued

Municipal Debentures—Continued

Security	Yield Rate (Per Cent.)	Term	Par Value	Book Value	Accrued Interest
			$ c.	$ c.	$ c.
Galt:	5.622	Oct. 30, 1940	42,000 00	38,436 34	321 04
	5.65	Dec. 6, 1961	19,284 69	18,422 81	70 50
	5.30	1934–1943	83,374 04	84,505 20	3,844 33
	5.20	Dec. 1, 1962	68,400 36	71,583 23	319 50
	5.20	Dec. 1, 1962	14,135 90	15,890 01	72 03
	4.95	Dec. 15, 1964	14,097 18	15,366 46	36 10
	5.05	July 2, 1965	35,254 75	37,834 05	....
Glencoe:	6.75	1931–1940	11,353 53	10,702 32	468 75
	5.33	May 1, 1959	70,000 00	71,737 04	632 90
Grey, County	5.25	Aug. 1, 1945	75,000 00	73,151 88	1,571 92
Guelph:	6	1940–1944	13,287 11	12,737 76	368 39
	5.183	June 30, 1942	75,000 00	73,821 74	....
	5.20	June 30, 1938	20,000 00	19,766 40	....
	4.914	June 30, 1942	50,000 00	50,373 18	....
Hamilton:	5.875	1935–1937	8,740 84	8,384 75	37 11
	5.375	Feb. 1, 1932 and 1939	5,536 91	5,578 29	127 65
	6	1932–1940	93,849 28	93,849 28	941 06
	5.90	1934–1941	164,629 81	165,594 79	3,301 62
	5.45	1937–1938	40,000 00	41,341 11	604 93
	5.50	Feb. 1, 1936	7,000 00	7,164 45	176 05
	4.95	1933–1942	150,000 00	155,381 73	3,458 22
	5.749	1941–1945	44,000 00	41,045 03	554 52
	5.714	1938–1945	190,000 00	171,710 99	3,584 00
	5.554	1938–1945	77,000 00	70,261 26	1,442 96
	5	1940–1945	97,000 00	92,522 90	1,088 25
	5	1940–1947	102,000 00	97,505 92	1,521 65
	5.064	1947–1949	54,000 00	53,602 05	673 15
	5.064	1947–1949	104,000 00	103,233 59	854 80
	5.06	1947–1949	6,000 00	5,956 52	24 65
	5.06	1947–1949	2.000 00	1,985 50	....
	5.068	1946–1948	19,000 00	17,799 63	208 50
	5.067	1946–1949	42,000 00	39,340 63	310 70
	5.068	1946–1948	47,000 00	43,040 13	....
	5.068	1946–1948	55,000 00	51,470 02	1,030 70
	5.068	1946–1948	32,000 00	29,945 27	355 10
	5.068	1946–1948	9,000 00	8,422 72	66.60
	5.067	1946–1948	16,000 00	14,973 56	59 20
	5.068	1946–1949	82,000 00	76,732 12	1,536 70
	5.067	1946–1949	51,000 00	47,722 84	760 80
	5.048	Jan. 2, 1945	43,000 00	42,789 88	....
	5.048	Feb. 1, 1945	26,000 00	25,872 95	541 40
	5.048	April 1, 1945	16,000 00	15,921 81	199 45
	5.048	June 1, 1945	55,000 00	54,731 24	218 50
	5.048	May 1, 1945	32,000 00	31,843 63	263 00
Hanover	5.30	1945–1959	65,703 97	67,300 54	1,197 95
Hastings	5.50	1931–1935	4,948 17	4,867 00	21 00
Hawkesbury	7.25	1931–1940	60,959 59	57,507 00	3,336 95
Hydro-Electric Power Commission (guaranteed by Province of Ontario):	5.0004	Jan. 2, 1970	95,000 00	90,934 18	....
	4.70	June 24, 1941	40,000 00	44,272 03	4 60
Kingston:	6.10	1935–1948	4,600 00	4,566 98	....
	6.125	1931–1945	50,200 00	49,801 01	46 12
	5.30	Jan. 1, 1942	35,000 00	35,576 19	....
Kingsville	6.625	1931–1941	41,869 80	41,606 58	1,588 20
Kitchener:	5.25	1943–1951	47,682 18	48,978 62	222 73
	5.25	1943–1952	28,490 33	29,274 13	390 65
	5.75	1931–1946	940 39	924 31	10 90
	4.99	1942–1945	24,849 50	24,875 34	364 20

TABLE 14—Continued

Municipal Debentures—Continued

Security	Yield Rate (Per Cent.)	Term	Par Value	Book Value	Accrued Interest
			$ c.	$ c.	$ c.
Leaside	6	1931–1949	100,000 00	95,851 52	2,742 45
Lincoln, County	4.95	Sept. 11, 1943	90,000 00	90,426 54	1,368 50
Lindsay	5.40	Jan. 1, 1935	14,681 07	14,733 86	....
Listowel	5.875	1931–1947	14,948 80	14,548 02	342 35
London:	5.523	Aug. 3, 1939	24,000 00	21,435 92	397 15
	5.50	1937–1938	11,000 00	10,351 45	....
	6.538	June 30, 1942	25,000 00	20,425 65	3 05
	6.27	1935–1939	114,425 61	112,889 72	18 75
	5.85	June 30, 1942	50,000 00	43,372 45	6 10
	5.85	Jan. 1, 1944	50,000 00	46,176 49	....
	5.35	1940–1941	15,000 00	15,180 93	2 26
	5.35	1937–1941	75,000 00	75,780 07	11 30
	5.25	1934–1940	103,623 46	105,066 07	1,904 96
	5.23	Aug. 3, 1939	20,000 00	18,253 33	330 96
	4.955	June 30, 1945	25,000 00	25,120 91	3 42
	4.955	1938–1942	45,000 00	45,162 31	....
	4.955	1939–1945	26,000 00	26,097 41	....
	4.981	June 30, 1942	25,000 00	23,414 06	....
	5	1944–1949	236,000 00	236,000 00	....
Middlesex, County	5.10	1941–1945	79,000 00	78,280 01	1,309 45
Midland (guaranteed by County of Simcoe):	4.97	1940–1947	14,339 86	15,080 83	263 63
	4.97	1940–1944	10,720 05	11,226 53	98 52
	4.964	1940–1947	36,422 68	36,539 30	533 85
	4.971	1940–1957	47,160 21	47,327 37	1,285 60
Mimico:	5.636	1935–1960	62,940 45	62,032 64	....
	5.68	1935–1950	36,525 33	34,409 99	....
Mount Forest	5.20	1945–1948	26,183 59	25,612 10	46 60
Napanee	4.80	1941–1943	14,623 28	14,879 73	244 35
Niagara Falls:	6.60	1938–1945	50,548 31	44,440 44	1,904 19
	6.50	1934–1941	59,553 78	57,804 08	1,801 30
	5.318	1940–1953	54,098 50	55,182 21	1,744 48
	5.32	1938–1952	16,139 50	15,618 44	73 89
North Bay:	6	1938–1942	1,788 66	1,672 08	50 70
	5.70	1937–1942	76,276 50	77,928 79	3,071 93
	4.75	1937–1947	42,775 84	43,728 86	52 75
	4.75	1937–1943	17,558 14	17,212 82	530 35
	5.10	1939–1948	152,370 42	158,359 17	....
Northumberland and Durham, United Counties of	5.394	1931–1948	56,739 69	55,178 88	124 35
North Toronto (City of Toronto)	6.05	1935–1942	20,246 58	18,264 89	64 89
North York, Township:	4.97	1940–1941	8,500 00	8,854 71	372 72
	4.97	1940–1944	17,866 71	18,710 76	576 10
	4.97	1940–1943	25,811 14	26,991 28	357 80
	4.95	1943–1957	36,885 12	39,465 96	1,700 75
	4.75	1940–1948	47,687 13	48,860 50	1,998 90
	4.85	1940–1958	24,469 63	26,411 25	1,128 25
Oakville	5.50	1931–1935	2,717 02	2,754 27	40 60
Orillia (guaranteed by County of Simcoe)	4.96	1941–1954	17,156 14	17,241 71	216 20
Oshawa:	6.75	1931–1935	34,152 60	33,466 96	258 25
	6.40	1945–1951	45,133 48	43,255 47	2,270 24
	7	1931–1932	1,010 33	977 15	40 15
	5.40	1931–1936	19,207 92	19,293 12	....
	5.375	June 1, 1938	6,068 02	5,922 77	177 88
	5.322	1939–1943	78,000 00	75,937 63	2,286 58
	5.648	1945–1949	100,000 00	98,390 64	....
Ottawa:	5.522	1931–1941	39,906 66	36,057 08	....
	5.25	1932–1945	118,766 39	120,774 13	....
	6.12	July 1, 1939	10,800 00	9,289 13	....
	6.10	July 1, 1938	15,219 83	14,226 66	....
	5.726	July 1, 1946	100,000 00	92,624 11	....
	4.95	July 1, 1951	15,000 00	17,014 00	....

TABLE 14—Continued

Municipal Debentures—Continued

Security	Yield Rate (Per Cent.)	Term	Par Value $ c.	Book Value $ c.	Accrued Interest $ c.
Oxford	6.25	1933–1936	9,963 03	9,485 51	292 05
Owen Sound:	5.20	Feb. 1, 1943	25,000 00	25,682 21	576 37
	4.95	April 1, 1945	100,000 00	100,519 22	1,260 27
	5.10	Feb. 1, 1945	50,000 00	49,491 74	1,041 10
Parry Sound:	6.50	1931–1944	30,690 22	30,080 83	771 87
	7.125	1937–1950	50,235 30	45,287 15	1,263 44
Pembroke	5	1946–1954	75,025 53	75,025 53	2,199 36
Perth:	5.50	1931–1943	2,553 13	2,477 98	10 50
	5.50	1931–1944	325 87	315 73	1 30
	5.50	1931–1934	184 00	181 88	75
	5.50	1931–1933	378 36	374 82	1 50
	5.50	1931–1934	1,613 18	1,613 25	2 65
	4.95	1940–1947	52,000 00	52,253 13	1,267 95
	4.79	1940–1948	91,000 00	92,936 24	2,667 65
	5.10	1945–1950	21,000 00	20,918 87	701 90
Peterborough:	5.184	June 30, 1946	50,000 00	49,030 20	....
	6.10	Dec. 31, 1946	15,000 00	13,327 92	....
	6.205	June 30, 1950	155,000 00	151,438 24	25 48
	6.25	Dec. 31, 1940	50,000 00	50,000 00	....
Port Arthur:	6.625	Jan. 1, 1942	11,193 32	9,791 24	....
	6.595	June 1, 1940	100,000 00	95,842 78	509 59
	6.80	Jan. 1, 1943	17,520 00	14,961 48	....
	5.20	June 1, 1959	50,000 00	48,523 07	205 50
Port Arthur (guaranteeing General Hospital)	5.125	Nov. 1, 1955	100,000 00	105,430 69	904 10
Preston	6.50	1931–1937	11,406 37	11,081 30	548 25
Renfrew:	5.75	1931–1935	5,279 28	5,319 56	29 50
	5.85	1931–1947	8,170 28	8,253 93	362 60
	4.95	1947–1958	55,034 42	55,410 54	2,080 70
Richmond Hill	5.50	1931–1944	6,598 26	6,598 26	303 25
St. Catharines:	5.385	Dec. 29, 1945	50,000 00	48,039 03	13 70
	6.312	1931–1940	25,000 00	25,194 06	....
	6.321	1931–1940	29,000 00	28,916 18	....
	5.45	1934–1942	24,750 00	25,562 63	248 18
St. Marys:	5.50	Oct. 31, 1943	4,870 30	4,656 20	....
	5.50	Jan. 1, 1944	2,500 00	2,385 97	....
St. Thomas:	6.38	1937–1951	129,562 40	125,043 79	3,258 56
	6.38	1938–1939	3,387 15	3,187 06	3 57
	5.40	1934–1937	70,000 00	71,830 63	483 29
	5.15	1949–1953	25,000 00	24,527 03	58 22
	5.20	1934–1949	39,000 00	38,312 12	90 82
Sandwich:	5.625	1931–1935	3,263 30	3,296 91	178 60
	6.625	1931–1943	18,532 41	17,829 71	700 65
	6.549	1938–1940	6,774 32	6,526 83	18 92
	6.546	1931–1949	43,418 33	41,671 09	656 61
	5.484	1944–1955	78,106 11	78,253 28	2,165 56
	5.579	1944–1947	11,000 00	10,908 12	51 40
	5.25	1944–1958	313,879 39	323,854 38	15,797 10
	5.50	1945–1960	126,694 20	126,694 20	....
Sandwich West, Township	5.05	1938–1948	80,272 18	86,368 65	4,037 80
Sarnia:	6.50	1931–1939	6,142 04	5,884 56	....
	6.60	1932–1935	35,000 00	33,897 68	....
	5.217	1942–1947	62,914 68	61,535 79	792 90
Sault Ste. Marie:	5.50	Mar. 25, 1949	24,771 50	26,195 31	394 97
	6.405	April 1, 1950	45,000 00	40,500 71	623 84
	6.555	Mar. 1, 1935	100,000 00	97,866 68	2,005 48
Scarborough, Township:	4.70	1940–1943	25,000 00	25,653 42	54 80
	5.35	1942–1958	75,474 03	72,052 12	165 40
	6	1931–1940	25,689 23	24,710 36	56 30

TABLE 14—Continued

Municipal Debentures—Continued

Security	Yield Rate (Per Cent.)	Term	Par Value	Book Value	Accrued Interest
			$ c.	$ c.	$ c.
Simcoe	5.50	1931–1945	9,589 88	9,836 28	25 20
Smith's Falls:	5.50	1931–1944	7,910 38	7,910 38	363 50
	5.50	1931–1946	13,949 49	14,441 18	559 50
	5.50	1931–1936	975 31	990 91	29 30
	5.775	1931–1937	2,755 38	2,723 67	101 30
	5.776	1931–1947	11,650 44	11,417 85	428 30
	5.022	1940–1945	64,306 49	64,179 32	2,158 21
	5	1944–1946	54,000 00	54,000 00	1,812 33
Stratford:	5.50	Jan. 1, 1945	25,000 00	23,801 01	....
	5.50	Jan. 1, 1945	15,000 00	14,281 21	....
	5.50	Jan. 1, 1945	10,000 00	9,520 41	....
	5.625	Jan. 1, 1945	13,000 00	12,221 96	....
	6.25	Jan. 1, 1951	40,000 00	38,861 79	....
	5.40	Jan. 1, 1942	124,000 00	130,110 39	....
	5.40	Jan. 1, 1942	50,000 00	50,408 58	....
	5.401	1937–1952	83,000 00	83,504 84	....
	4.95	June 15, 1935	143,000 00	143,311 75	3,917 81
	4.95	June 15, 1940	7,000 00	7,027 17	191 78
	4.95	June 15, 1955	30,000 00	30,215 14	821 92
	4.915	Jan. 1, 1945	2,000 00	2,016 91	....
Sudbury:	7	1931–1937	29,897 38	27,858 85	1,249 10
	5.50	1940–1949	49,943 48	47,484 88	136 80
	5.05	1945–1948	66,235 66	66,218 08	825 65
Thorold	5.134	Aug. 15, 1958	3,000 00	2,941 25	62 90
Tillsonburg:	5.50	Mar. 20, 1945	975 00	975 00	42 16
	5.50	1931–1944	989 72	989 72	42 65
	5.50	1931–1935	1,750 96	1,750 96	73 45
	5.50	1931–1935	875 46	875 46	37 70
Toronto:	6.027	1931–1938	24,000 00	23,204 48	....
	6	1940–1943	60,000 00	55,229 72	254 79
	5.30	July 1, 1948	4,866 66	4,150 70	....
	5.25	July 1, 1942	10,000 00	9,786 77	....
	6.049	1937–1939	16,000 00	15,490 69	294 14
	6.049	April 1, 1938	4,000 00	3,869 97	55 45
	6.049	1937–1938	7,000 00	6,788 25	....
	6.08	July 1, 1948	29,200 00	22,715 14	....
	6.08	July 1, 1945	7,000 00	6,269 26	....
	6.08	July 1, 1948	4,000 00	3,326 67	....
	6.05	July 1, 1948	6,326 66	4,937 93	....
	6.021	Jan. 1, 1955	19,000 00	15,357 03	....
	6	1931–1937	40,000 00	39,339 61	554 52
	6.434	1941–1948	269,000 00	258,071 69	4,068 27
	6.436	1940–1948	231,000 00	221,958 68	2,316 40
	6.24	1934–1939	49,000 00	48,479 88	982 70
	6.20	1935–1940	50,000 00	49,481 84	1,002 74
	6.25	June 1, 1951	100,000 00	97,130 15	509 59
	6.40	June 1, 1948	59,000 00	56,542 72	300 66
	6.35	1943–1944	147,000 00	142,537 64	749 10
	6.35	1942–1944	53,000 00	51,467 12	270 08
	6	1937–1940	44,000 00	42,612 88	....
	6	1936–1949	61,000 00	61,000 00	310 85
	6	1937–1947	17,000 00	16,269 55	....
	6	1942–1951	52,000 00	52,000 00	786 41
	6	1935–1940	50,000 00	48,549 03	....
	6	1937–1941	28,000 00	28,000 00	....
	6	1937–1939	9,000 00	9,000 00	45 86
	6	1937–1939	7,000 00	7,000 00	105 86
	6	1937–1939	10,000 00	10,000 00	....
	6	1937–1939	14,000 00	13,582 87	....
	6	1938–1939	9,000 00	8,716 06	....
	5.40	1939–1941	150,000 00	151,111 49	2,757 55
	5.35	Mar. 1, 1951	83,000 00	89,668 04	1,664 55
	5.35	Jan. 1, 1951	15,000 00	16,171 63	....

TABLE 14—Continued

Municipal Debentures—Continued

Security	Yield Rate (Per Cent.)	Term	Par Value	Book Value	Accrued Interest
			$ c.	$ c.	$ c.
Toronto:	5.20	1940–1942	58,000 00	57,100 69	484 66
	5.20	1940–1951	41,000 00	42,197 24	....
	5.25	April 1, 1951	50,000 00	48,439 65	630 14
	5.02	1940–1951	21,000 00	22,966 48	107 01
	5.02	Mar. 1, 1940	1,000 00	1,073 33	20 05
	4.925	July 1, 1950	20,000 00	20,186 88	....
	4.925	April 1, 1950	25,000 00	25,233 57	315 07
	5.265	July 1, 1944	35,000 00	32,429 94	....
	5.252	July 1, 1945	96,000 00	88,727 56	....
	4.988	July 1, 1948	58,000 00	54,731 47	....
	4.95	June 1, 1946	7,000 00	6,661 86	25 90
	4.95	1943–1945	40,000 00	38,263 87	300 82
	4.95	1943–1948	33,000 00	31,509 20	....
	4.95	1945–1951	106,000 00	106,596 90	....
	5.10	1952–1956	220,000 00	202,309 79	4,150 00
	5.03	1952–1956	145,000 00	134,433 08	2,180 95
	4.98	1952–1956	38,000 00	35,464 03	431 10
	5.05	1951–1956	262,000 00	242,888 04	2,971 75
	5.11	1951–1956	85,000 00	77,939 27	639 25
	4.90	June 1, 1945	18,000 00	20,038 09	91 75
	4.90	Mar. 1, 1949	2,000 00	2,144 80	36 75
	4.75	June 1, 1948	2,000 00	2,294 30	10 20
	4.77	July 1, 1948	3,000 00	3,435 39	....
	4.75	1941–1951	179,000 00	204,748 53	....
	4.75	June 1, 1951	75,000 00	87,197 25	382 20
	4.82	1942–1950	30,000 00	33,760 71	152 90
	4.82	Oct. 1, 1949	25,000 00	28,644 48	378 10
	5.05	1955–1959	150,000 00	148,904 77	616 40
Toronto Harbour Commissioners:	5.30	Sept. 1, 1953	100,000 00	89,439 53	1,504 11
	5.318	Sept. 1, 1953	25,000 00	22,306 94	376 03
Toronto Junction (City of Toronto)	6.187	Jan. 2, 1943	33,000 00	28,376 36	....
Toronto, Township	4.95	1941–1952	18,104 29	19,249 91	627 42
Trenton	5	1942–1943	25,000 00	26,147 17	1,103 76
Walkerville:	6.597	1931–1942	24,921 77	24,126 11	69 65
	6.271	1942–1948	17,531 70	16,225 73	47 54
	5	1949–1951	99,038 43	111,389 01	276 75
	4.70	1942–1947	25,511 95	26,277 78	59 40
Walkerville-East Windsor Water Commission	5.15	1947–1959	291,476 32	304,919 79	....
Welland City	5.439	April 1, 1939	42,000 00	43,579 92	635 18
Welland, County	5.38	Dec. 15, 1945	10,000 00	9,616 08	23 28
Weston	5	1949–1952	24,949 65	28,109 06	65 60
West Gwillimbury, Township (guaranteed by County of Simcoe)	5.459	1942–1956	36,107 36	36,278 45	....
Whitby:	5.375	1931–1946	11,128 94	11,226 80	97 25
	5.375	1931–1946	2,904 32	2,935 81	27 10
	5.38	1931–1946	5,039 01	5,089 76	44 00
Windsor:	5.563	1931–1935	11,665 41	11,641 80	28 15
	6.413	1942–1950	200,257 35	192,015 63	1,020 30
	6.05	1938–1940	32,977 61	32,858 45	585 45
	6.10	Sept. 15, 1941	12,337 43	12,238 95	219 01
	6.05	June 1, 1940	13,000 00	12,953 54	66 25
	5.32	1946–1952	110,000 00	112,267 52	1,525 00
	5.101	June 1, 1951	24,000 00	26,724 50	122 30
Woodstock:	5.625	Dec. 31, 1936	7,045 32	6,650 70	....
	5.625	Nov. 1, 1938	10,000 00	9,303 01	....
	5.625	Nov. 30, 1937	6,000 00	5,621 99	....
York, Township:	4.958	1941–1946	100,000 00	100,394 54	424 66
	5.572	1941–1951	102,407 13	106,677 66	2,053 75
	5.408	1949–1956	225,000 00	213,434 68	4,715 77
	4.979	1942–1946	195,000 00	195,404 53	4,087 00

TABLE 14—Continued

Municipal Debentures—Continued

Security	Yield Rate (Per Cent.)	Term	Par Value	Book Value	Accrued Interest
			$ c.	$ c.	$ c.
York, Township:	5	1945–1955	22,000 00	22,000 00	93 45
	4.85	Feb. 1, 1952	25,000 00	25,496 24	524 00
	4.85	1941–1949	20,731 26	22,135 69	....
	4.93	1941–1952	8,679 27	9,700 70	174 05
	4.93	1941–1952	27,659 28	30,967 19	695 65
	5.08	1945–1958	74,000 00	73,196 15	922 45
York, Township (guaranteed by County of York):	5.39	1951–1956	93,000 00	88,160 78	394 95
	4.95	1946–1957	21,000 00	21,137 22	350 95
			17,352,113 02	17,106,424 95	219,130 52

TABLE 14—Continued

Other Permanent Investments

Security	Yield Rate (Per Cent.	Term	Par Value	Book Value	Accrued Interest
			$ c.	$ c.	$ c.
Canadian National Railway Company (guaranteed by Dominion of Canada):	5.07	July 1, 1969	200,000 00	197,530 77	....
	5.015	Feb. 1, 1970	40,000 00	39,900 41	832 90
	5.032	Feb. 1, 1970	200,000 00	200,767 89	4,164 45
Canadian Northern Railway Company (guaranteed by Dominion of Canada):	4.93	July 1, 1946	30,000 00	35,064 34	....
	4.914	July 1, 1946	100,000 00	117,069 01	....
	4.915	July 1, 1946	10,000 00	11,705 55	....
	4.93	July 1, 1946	18,000 00	21,033 71	....
	4.893	July 1, 1946	10,000 00	11,731 60	....
	4.90	July 1, 1946	50,000 00	58,618 66	....
	4.947	July 1, 1946	37,000 00	43,165 51	....
	5.246	July 1, 1946	65,000 00	73,564 77	....
	5.196	July 1, 1946	469,000 00	533,544 93	....
	4.875	July 1, 1946	100,000 00	117,538 09	....
	5.051	July 1, 1946	200,000 00	230,893 82	....
Dominion of Canada Guaranteed Debenture Stock of the Canadian Northern Ry. Co.:	5.163	July 20, 1958	243,333 00	183,779 22	3,850 05
	4.75	July 20, 1958	16,000 00	12,920 21	253 15
Ontario, Province of:	5.178	Oct. 15, 1948	250,000 00	244,836 20	263 70
	5.88	Feb. 1, 1941	50,000 00	50,472 72	1,257 53
	5.449	Dec. 1, 1950	700,000 00	619,676 21	2,675 30
	5.458	Dec. 1, 1949	300,000 00	266,256 02	1,146 60
	5	Sept. 15, 1943	50,000 00	54,738 75	879 45
	5.371	Dec. 1, 1947	13,000 00	11,747 77	49 70
	4.875	Oct. 15, 1948	50,000 00	50,745 42	520 55
	4.875	Oct. 15, 1948	60,000 00	60,891 96	624 66
	4.871	Oct. 15, 1948	25,000 00	25,383 37	260 27
	4.875	Oct. 15, 1948	50,000 00	50,743 55	520 55
	4.86	Jan. 15, 1956	500,000 00	473,749 74	10,417 80
	4.90	Sept. 15, 1943	185,000 00	204,396 70	3,253 95
	4.80	Dec. 1, 1942	115,000 00	122,276 11	537 20
	4.85	Sept. 15, 1943	9,000 00	9,989 72	158 30
	4.85	Sept. 15, 1943	57,500 00	63,821 49	1,011 35
	4.85	Sept. 15, 1943	30,000 00	33,310 45	527 65
	4.85	Sept. 15, 1943	30,000 00	33,298 99	527 65
	4.75	Sept. 15, 1943	7,000 00	7,841 13	123 10
	5.016	May 1, 1959	250,000 00	249,388 91	2,054 80
Ontario, Province of (guaranting The University of Western Ontario)	5.672	1942–1946	54,000 00	47,948 09	....
			4,573,833 00	4,570,341 79	35,910 66
Total Permanent Investments, Schedule 1.....			21,925,946 02	21,676,766 74	255,041 18

TABLE 14—Continued

SCHEDULE 2 FUNDS

Security	Yield Rate (Per Cent.)	Term	Par Value $ c.	Book Value $ c.	Accrued Interest $ c.
Barton, Township	5.354	July 14, 1952	63,000 00	64,183 92	1,604 34
Belleville:	5.669	1943–1945	3,450 26	3,234 57	....
	5.613	1943–1950	8,000 00	7,479 40	17 55
	5.704	1940–1946	10,488 47	9,831 49	219 80
Brantford	5.42	Dec. 31, 1949	15,000 00	12,494 34	....
Chippawa, Township (guaranteed by County of Welland):	5.525	1941–1944	22,578 30	22,526 82	520 52
Cornwall:	5.535	1941–1943	10,248 45	10,214 14	284 13
Etobicoke, Township:	5.485	1941–1955	24,867 79	23,519 31	415 60
	5.07	1941–1956	32,574 89	32,335 33	1,227 13
	5.067	1942–1956	58.470 29	61,435 03	2,422 90
Galt	5.34	Dec. 15, 1965	19,460 45	18,415 02	42 65
Hamilton:	5.697	1942–1946	152,000 00	134,999 88	2,867 18
	5.54	1942–1946	134,000 00	120,858 96	512 15
	5.444	1942–1946	35,000 00	33,513 85	292 47
Hydro-Electric Power Commission (guaranteed by Province of Ontario)	5.45	June 24, 1941	15,000 00	15,650 08	17 25
Kingston	5.453	July 1, 1955	120,000 00	112,694 76	....
Kitchener	5.475	1944–1947	10,418 06	10,991 57	104 45
London:	5.444	Dec. 30, 1954	411,000 00	386,729 67	....
	5.439	1940–1956	280,000 00	268,071 76	76 70
	5.26	1940–1955	101,000 00	98,421 80	....
North Bay	5.799	1940–1943	33,000 00	32,171 80	1,516 65
Ontario, Province of:	5.528	Oct. 1, 1942	31,000 00	29,583 75	390 68
	5.376	April 1, 1952	19,000 00	18,098 41	239 45
	4.875	Oct. 15, 1948	50,000 00	50,744 95	520 55
Ottawa	5.574	1941–1946	36,000 00	34,179 07	....
Owen Sound	4.95	April 1, 1945	125,000 00	125,649 00	1,575 34
Peterborough	5.514	Dec. 31, 1945	20,000 00	18,964 30	....
Renfrew	5.40	1949–1953	50,234 63	50,863 52	461 73
Stamford, Township	5.458	1941–1954	246,628 19	247,816 71	408 80
Stratford:	5.201	July 1, 1954	82,000 00	83,090 35	2,190 86
	5.611	1940–1956	122,613 19	115,457 83	3,359 25
Thorold	5.50	1940–1959	49,546 82	46,546 09	617 60
Toronto:	6.325	June 1, 1940	4,000 00	3,912 88	20 38
	6.325	June 1, 1942	21,000 00	20,447 72	107 01
	6.254	1937–1940	130,000 00	128,067 54	662 55
	5.557	Dec. 1, 1940	100,000 00	103,364 34	509 59
	5.25	1940–1943	42,000 00	44,479 21	214 03
	5.25	1950–1951	50,000 00	48,450 87	630 14
	4.99	July 1, 1948	24,333 33	21,528 64	....
	5.287	1948–1954	172,000 00	155,252 71	1,293 53
	5.269	1948–1954	154,000 00	139,247 25	588 57
	5.572	1947–1954	229,000 00	198,375 49	3,444 40
	5.458	Jan. 1, 1949	5,000 00	4,446 38	....
	5.455	July 1, 1950	4,000 00	3,785 63	....
	4.75	June 1, 1950	40,000 00	46,312 13	203 85
	5.05	June 1, 1954	50,000 00	49,636 16	205 50
Toronto Harbour Commissioners:	5.70	Sept. 1, 1953	51,000 00	43,207 25	767 10
	5.30	Sept. 1, 1953	25,000 00	22,359 88	376 03
	5.268	Sept. 1, 1953	141,000 00	126,667 21	2,120 79
	5.25	Sept. 1, 1953	50,000 00	45,028 42	752 05
Victoria, County	5.50	1951–1959	17,954 20	16,725 64	39 35
Waterloo, Town	5.68	1941–1947	19,195 72	18,878 07	885 07
Total Permanent Investments, Schedule 2.....			**3,721,063 04**	**3,540,940 90**	**34,725 67**

SHORT DATE DEPOSITS, SCHEDULE 1

Canada Permanent Mortgage Corporation,	
Special Deposit—5 per cent. withdrawable as required	$500,000 00
Canada Trust Co. (Huron & Erie Mortgage Corporation),	
Short Date Debentures:	
$5\frac{1}{4}$ per cent. withdrawable on short notice	250,000 00
$5\frac{1}{8}$ per cent. withdrawable on short notice	250,000 00
Total Short Date Deposits, Schedule 1	$1,000,000 00

CHAPTER V

1929 OPERATIONS

This chapter deals with the year 1929, containing information which was not available when the report for that year was made.

It gives the final financial statement for Schedule 1 industries for the year, estimates of the adjustments of assessments and of the outstanding compensation and medical aid having to be used in the provisional statement given in Table 1 of the 1929 report; and it gives statistical information as to the accidents which happened during 1929, their causes, the nature of the injuries suffered, the number, time loss, total and average cost of the different classes of cases, and the age, wage, nationality, and marital condition of the injured workmen.

This information is contained in Tables 15 to 27.

Final Financial Statement, Schedule 1, 1929

Table 15 gives the final financial statement for Schedule 1 industries for 1929, provisional figures for which were given in Table 1 of the 1929 report. It shows the income and credits and the expenditure and charges and the balance, for each class of industry; also the actual assessments and accident cost and other items of income and expenditure for each class, and the assessments and accident cost for each group of industry within the class. The list of industries included in each class and group will be found in the Board's rate book, the list of industries in the different classes is also printed with the Act, and their general nature is indicated at the bottom of Table 1 of this report.

The net income and credits for all the classes for the year were $7,759,864.44, and the net expenditure and charges, $7,288,083.20, leaving a surplus for the year of $471,781.24. Adding the surplus forward from prior years, $1,078,880.11, leaves a net actual surplus of $1,550,661.35, as compared with a provisional or estimated surplus of $429,421.73, the disparity being largely due to claims for accidents occurring in 1929 and prior years not being finally disposed of during 1930.

Assessments and Accident Cost

The assessments and accident cost (the latter comprising compensation and medical aid and payments on account of rehabilitation) in Schedule 1 for each year since the commencement of the Act, and the totals to the end of 1929, are as follows:

Year	Assessment	Accident Cost
1915	$1,831,537 52	$1,091,020 43
1916	2,361,463 20	1,880,004 37
1917	2,662,383 29	2,639,560 56
1918	3,303,575 83	3,214,427 57
1919	3,840,949 07	4,474,847 38
1920	5,579,333 45	5,041,947 30
1921	4,594,452 37	4,277,034 67
1922	3,984,594 64	4,323,801 07
1923	3,771,321 09	4,977,331 82
1924	4,524,700 86	4,746,314 60
1925	4,390,854 75	4,438,802 13
1926	5,167,126 64	4,711,970 90
1927	5,465,763 17	5,082,073 61
1928	6,739,696 80	6,083,772 14
1929	7,505,431 10	6,861,274 51
Totals	$65,723,183 78	$63,844,183 06

Pay Roll and Rates of Assessment

As assessments are in the form of a percentage of pay roll, the average rate paid by employers in Schedule 1 can be determined by dividing the total assessments for the year by the total pay roll. The following table shows the total amount of pay roll and the total assessments and the average rate for $100 pay roll for each year:

Year	Total Pay Roll	Total Assessments	Average Rate per $100
1915	$147,603,000	$1,831,537 52	$1 24
1916	220,840,000	2,361,463 20	1 07
1917	286,903,000	2,662,383 29	93
1918	310,450,000	3,303,575 83	1 06
1919	325,226,000	3,840,949 07	1 18
1920	464,589,000	5,579,333 45	1 20
1921	355,259,000	4,594,452 37	1 29
1922	391,888,000	3,984,594 64	1 02
1923	434,163.000	3,771,321 09	87
1924	386,318,000	4,524,700 86	1 17
1925	390,652,000	4,390,854 75	1 04
1926	424,926,000	5,167,126 64	1 22
1927	455,016,000	5,465,763 17	1 20
1928	504,102,000	6,739,696 80	1 34
1929	559,429,000	7,505,431 10	1 34

Final Accident Figures, 1929

Table 16 shows the number of accidents happening in 1929 (in all industries under the Act) for which payment of compensation or medical aid was made. The total number was 71,291, of which 417 were death cases, 3,372 cases involving some degree of permanent disability, 32,920 temporary disability cases, and 34,582 cases which involved medical aid only. Schedule 2 cases involving medical aid only are not included as in these cases medical aid is furnished directly by the employer.

The complete figures for each year since the commencement of the Act are as follows:

Year	Medical Aid Only	Temporary Disability	Permanent Disability	Death	Totals
1915	*	9,311	1,339	296	10,946
1916	*	15,993	2,232	373	18,598
1917	†4,267	21,556	2,475	370	28,668
1918	12,822	24,089	2,624	366	39,901
1919	11,769	22,418	2,457	364	37,008
1920	15,566	27,423	2,735	373	46,097
1921	12,141	22,855	2,079	331	37,406
1922	15,913	24,461	2,082	325	42,781
1923	20,125	28,954	2,340	327	51,746
1924	20,811	25,980	2,191	315	49,297
1925	22,444	26,040	2,157	264	50,905
1926	25,330	27,150	2,421	308	55,209
1927	27,852	28,836	2,476	311	59,475
1928	31,688	30,440	2,926	414	65,468
1929	34,582	32,920	3,372	417	71,291
Totals	255,310	368,426	35,906	5,154	664,796

*No medical aid. †Half year only.

Accident Frequencies, Schedule 1

Comparison of accident frequencies can be made by correlating the number of accidents with the total number of full-year workers, data for this being available, however, only in Schedule 1. Eliminating accidents in which medical aid only was paid, the number of accidents for each 100 full-year workers for the different years are:

Year	Temporary Disability	Permanent Disability	Death	Totals
1915	3.63	.58	.12	4.32
1916	4.99	.79	.10	5.88
1917	5.78	.72	.07	6.57
1918	5.81	.66	.07	6.54
1919	5.81	.68	.07	6.56
1920	6.23	.67	.07	6.97
1921	6.25	.60	.05	6.90
1922	5.82	.52	.06	6.40
1923	6.02	.51	.05	6.58
1924	6.08	.54	.06	6.68
1925	5.94	.51	.05	6.50
1926	5.84	.54	.05	6.43
1927	5.94	.53	.05	6.52
1928	5.85	.58	.07	6.50
1929	5.80	.61	.06	6.47

On the same basis of calculation, the frequency of medical aid only cases has been: 1918, 3.66; 1919, 3.70; 1920, 4.26; 1921, 4.24; 1922, 4.67; 1923, 4.96; 1924, 5.84; 1925, 6.09; 1926, 6.37; 1927, 6.73; 1928, 7.09; and 1929, 7.06.

Statistical Distributions

Tables 17 to 27 give statistical details regarding accidents and workmen, including, where the data is available, Schedule 2 and Crown cases as well as Schedule 1. Considerations of space preclude more extensive tabulations, but the original material is retained and still fuller information is always available concerning the accidents in any of the different classes of industry.

Month of Occurrence

Table 17 gives the month of occurrence of all accidents. The month in which the greatest number occurred during 1929 was July, with 6,802, and the month with the lowest number was December, with 4,874.

Accidents According to Locality

The distribution of accidents according to the county or district in which they occurred, is contained in Table 18. York had the highest number with 18,889, and next in order were Wentworth, with 5,633; Welland, with 4,599; Temiskaming, with 4,564; and Essex, with 3,894. The greatest number of deaths, 90, were in York; there were 33 in Sudbury; 28 each in Temiskaming and in Wentworth; and 23 in Welland.

Time Loss, Age and Wage

In Table 19 is given the average age and wage of workmen receiving compensation, and the total and average time loss for each class of industry and for each category of disability. The average age for 1929 was 34.12 years. The average weekly wage for 1929 was $23.85, as compared with $23.65 for 1928, and $23.11 for 1927. The total time loss in temporary disability cases was 693,466 days, or an average of 21.07 days, as compared with an average of 21.01 days in 1928, and 21.05 days in 1927.

Compensation and Medical Aid Costs, Schedule 1

Table 20 contains the total and average cost of compensation and medical aid by classes in Schedule 1 for each kind of disability.

The total cost of all accidents was $6,861,274.51, of which $5,420,301.67 was for compensation (including payments for rehabilitation), and $1,440,972.84 was for medical aid.

Of the $5,420,301.67 compensation cost, $1,906,883.12 was for temporary disability cases, $2,408,653.79 was for permanent disability cases, and $1,104,764.76 was for death cases.

The average cost of temporary disability cases was $96.51, of which $67.30 was for compensation and $29.21 was for medical aid, the average in 1928 being $97.18, and in 1927, $86.13.

The average cost of permanent disability cases was $936.22, of which $238.42 was for temporary disability, $565.81 for permanent disability, and $131.99 for medical aid.

The average cost of death cases, where there were dependants, was $4,712.33, and the average cost for all death cases was $3,586.68, of which $21.40 was for temporary disability, $123.38 for burial expenses, $68.32 for medical aid, and $3,373.58 for death benefits.

The average cost of all cases in which compensation was paid was $210.63, of which $171.30 was for compensation and $39.33 for medical aid, as compared with $203.46 for 1928, and $183.14 for 1927.

The average cost of medical aid in medical aid only cases was $5.70, as compared with $5.54 in 1928, and $5.49 in 1927.

Allegiance of Injured

Table 21 shows the allegiance of injured workers who received compensation as taken from their own reports. There were 30,311, or nearly 83 per cent., of British allegiance, and 6,398 of foreign allegiance. Among the aliens the most numerous were Poles, Finns, Italians, Russians, and Czechs.

Sex and Marital Condition of Injured

Table 22 gives the sex and marital condition of those receiving compensation. There were 36,382 males and 327 females. Of the males, 21,838 were married, and 41 of the females. There were 525 widowers and 41 widows.

Duration of Disability

Table 23 shows the week of termination of temporary disability cases. In nearly 47 per cent. of the cases the disability terminated in from one to two weeks. In 18 cases the disability lasted more than a year.

Nature of Industries

The first part of Table 24 shows the number of various kinds of temporary disability injuries in the different classes of industry, the second part gives an analysis of the permanent disability cases, showing the number of injuries to the several parts of the body and the percentages of impairment of earning capacity, and the third part of the table shows the number and nature of the industrial disease cases.

During 1929 there were 11,712 cuts, lacerations, and punctures; 8,659 bruises, contusions, and abrasions; 3,819 fractures; 2,841 sprains, strains, twistings, and wrenchings; 2,661 crushes; 1,448 scalds and burns; 1,031 injuries to eyes; 232 dislocations; and 163 herniae, among the temporary disabilities.

Among the 3,372 permanent disabilities were 14 permanent total disability cases and 379 cases exceeded 10 per cent. of working capacity.

There were 80 industrial disease cases, of which 3 involved medical aid only, 42 were temporary disability cases, 27 were permanent disability cases, and 8 were death cases. Included in these totals are 41 cases of lead poisoning, 31 cases of silicosis, 4 cases of caisson disease, and 4 cases of mercury poisoning.

Causes of Accidents

Table 25 gives the prime causes of accidents in 1929. Machinery was responsible for 13,943 out of a total of 71,291, or 19.56 per cent. of all cases, as compared with 20.70 per cent. in 1928, and 19.40 per cent. in 1927.

Blood-Poisoning Cases

The number of compensation cases in which the seriousness of the accident was due to concurrent or subsequent infection rather than to the nature of the wound is shown in Table 26. There were 2,047 such cases, or 5.6 per cent. of all cases compensated, including 34 cases of permanent disability and 8 deaths.

Death Cases

The nature of awards, the number, relationship, and residence of the dependants, are shown in Table 27.

TABLE 15

FINAL FINANCIAL STATEMENT FOR 1929, SCHEDULE 1

BY CLASSES

Class	Income and Credits	Expenditure and Charges	Balance for 1929	Balance forward Prior Years	Balance at Dec. 31, 1929	Class
	$ c.	$ c.	$ c.	$ c.	$ c.	
1	796,819 01	705,725 66	91,093 35	—240,383 62	—149,290 27	1
2	307,282 22	282,605 32	24,676 90	51,801 59	76,478 49	2
3	126,225 81	128,341 21	—2,115 40	—15,936 63	—18,052 03	3
4	221,081 31	213,927 18	7,154 13	2,284 10	9,438 23	4
5	849,295 37	**727,479 45	121,815 92	414,153 01	535,968 93	5
6	289,485 12	242,112 04	47,373 08	109,972 31	157,345 39	6
7	145,183 63	140,206 05	4,977 58	136,290 71	141,268 29	7
8	172,107 19	161,038 27	11,068 92	15,897 94	26,966 86	8
9	499,810 17	477,975 17	21,835 00	52,882 14	74,717 14	9
10	334,033 92	367,840 53	—33,806 61	124,802 75	90,996 14	10
11	468,200 40	444,558 27	23,642 13	—17,786 16	5,855 97	11
12	182,053 98	182,803 26	—749 28	73,028 64	72,279 36	12
13	115,159 44	94,129 18	21,030 26	—30,293 99	—9,263 73	13
14	65,039 47	62,940 08	2,099 39	—4,822 03	—2,722 64	14
15	305,753 61	323,618 75	—17,865 14	46,032 43	28,167 29	15
16	180,112 23	180,383 27	—271 04	44,008 07	43,737 03	16
17	111,495 88	97,402 62	14,093 26	60,486 35	74,579 61	17
18	89,294 90	87,554 74	1,740 16	22,916 22	24,656 38	18
19	76,963 54	94,436 94	—17,473 40	43,341 61	25,868 21	19
20	295,752 58	287,673 98	8,078 60	—99 23	7,979 37	20
21	400,326 30	391,441 66	8,884 64	12,935 11	21,819 75	21
22	119,940 50	84,313 61	35,626 89	—18,493 06	17,133 83	22
23	525,268 52	449,916 06	75,352 46	172,108 28	247,460 74	23
24	1,083,179 34	1,059,659 90	23,519 44	23,753 57	47,273 01	24
	†7,759,864 44	*7,288,083 20	471,781 24	1,078,880 11	1,550,661 35	

†Includes $9,194.02 reimbursement from D.P. & N.H.

*Includes $5,113.84 for Rehabilitation.

**Includes $5,267.07 for Mine Rescue Work.

TABLE 15—Continued

BY GROUPS

Assessments and Compensation			Other Credits and Charges			
Group and Class	Assessments	Compensation and Medical Aid	Interest, Secs. 83 (4), 8, 105, 112 (3), etc.	Administration Expenses and Safety Assns.	Balance Forward Prior Years	Balance at December 31, 1929
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Group 010	415,717 30	380,763 87				
" 011	260,488 82	151,658 99				
" 012	117,871 57	118,647 16				
Class 1	794,077 69	651,070 02	2,741 32	54,655 64	—240,383 62	—149,290 27
Group 020	194,818 07	139,704 69				
" 021	21,727 84	16,395 04				
" 022	79,454 51	104,194 11				
Class 2	296,000 42	260,293 84	11,281 80	22,311 48	51,801 59	76,478 49
Group 030	80,406 08	71,200 30				
" 031	16,411 16	16,739 95				
" 032	13,124 05	11,895 80				
" 033	15,777 41	20,569 89				
Class 3	125,718 70	120,405 94	507 11	7,935 27	—15,936 63	—18,052 03
Group 040	125,071 19	115,817 88				
" 041	41,410 85	42,293 05				
" 042	14,814 61	6,807 49				
" 043	6,853 63	5,043 41				
" 044	29,604 01	30,400 09				
Class 4	217,754 29	200,361 92	3,327 02	13,565 26	2,284 10	9,438 23
Group 050	35,098 63	61,414 93				
" 051	377,087 23	306,906 79				
" 052	209,877 15	193,011 29				
" 053	50,219 24	32,545 10				
" 054	2,057 88	943 27				
" 055	25,934 32	29,853 55				
" 056	47,024 51	63,050 12				
" 057	2,532 44	419 85				
Class 5	749,831 40	688,144 90	99,463 97	39,334 55	414,153 01	535,968 93
Group 060	28,667 01	15,970 42				
" 061	60,636 55	45,602 12				
" 062	27,332 16	29,052 76				
" 063	40,154 02	38,078 63				
" 064	19,881 91	22,163 83				
" 065	68,391 10	34,856 48				
" 066	30,282 36	38,115 39				
Class 6	275,345 11	223,839 63	14,140 01	18,272 41	109,972 31	157,345 39
Group 070	101,268 48	84,630 02				
" 071	33,711 13	46,916 28				
Class 7	134,979 61	131,546 30	10,204 02	8,659 75	136,290 71	141,268 29
Group 080	63,094 47	53,756 58				
" 081	22,228 81	13,995 44				
" 082	63,397 86	65,204 54				
" 083	19,408 24	14,808 31				
Class 8	168,129 38	147,764 87	3,977 81	13,273 40	15,897 94	26,966 86

TABLE 15—Continued

BY GROUPS

Assessments and Compensation			Other Credits and Charges			
Group and Class	Assessments	Compensation and Medical Aid	Interest, Secs. 83 (4), 8, 105, 112 (3), etc.	Administration Expenses and Safety Assns.	Balance Forward Prior Years	Balance at December 31, 1929
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Group 090	110,801 64	80,957 89				
" 091	40,171 65	36,417 53				
" 092	25,360 56	14,506 56				
" 093	33,094 83	35,398 06				
" 094	270,975 48	264,373 82				
" 095	17,464 89	23,247 34				
Class 9	497,869 05	454,901 20	1,941 12	23,073 97	52,882 14	74,717 14
Group 100	48,179 90	48,897 16				
" 101	115,686 72	134,173 63				
" 102	51,813 26	67,876 13				
" 103	31,228 07	29,080 08				
" 104	29,229 25	22,713 74				
" 105	21,860 82	20,200 16				
" 106	19,970 37	22,673 84				
" 107	7,096 60	4,825 82				
Class 10	325,064 99	350,440 56	8,968 93	17,399 97	124,802 75	90,996 14
Group 110	105,533 72	100,386 56				
" 111	241,031 39	221,810 08				
" 112	39,459 82	32,971 82				
" 113	78,828 91	56,159 83				
Class 11	464,853 84	411,328 29	3,346 56	33,229 98	—17,786 16	5,855 97
Group 120	61,973 57	61,175 49				
" 121	49,338 96	46,304 16				
" 122	34,622 84	27,450 15				
" 123	11,032 72	17,517 68				
" 124	15,963 99	17,553 80				
Class 12	172,932 08	170,001 28	9,121 90	12,801 98	73,028 64	72,279 36
Group 130	75,433 29	56,713 81				
" 131	39,042 21	33,297 47				
Class 13	114,475 50	90,011 28	683 94	4,117 90	—30,293 99	—9,263 73
Group 140	64,006 27	58,360 33				
Class 14	64,006 27	58,360 33	1,033 20	4,579 75	—4,822 03	—2,722 64
Group 150	65,859 60	76,564 32				
" 151	64,856 95	70,477 40				
" 152	32,277 96	24,570 35				
" 153	44,074 70	46,483 36				
" 154	28,078 05	44,688 41				
" 155	57,843 40	41,862 90				
" 156	2,516 50	1,441 29				
Class 15	295,507 16	306,088 03	10,246 45	17,530 72	46,032 43	28,167 29
Group 160	26,642 89	36,241 80				
" 161	17,288 75	5,319 10				
" 162	10,033 08	7,907 09				
" 163	78,234 23	77,496 69				
" 164	40,355 48	40,416 02				
Class 16	172,554 43	167,380 70	7,557 80	13,002 57	44,008 07	43,737 03

TABLE 15—Continued
BY GROUPS

Assessments and Compensation			Other Credits and Charges			
Group and Class	Assessments	Compensation and Medical Aid	Interest, Secs. 83 (4), 8, 105, 112 (3), etc.	Administration Expenses and Safety Assns.	Balance Forward Prior Years	Balance at December 31, 1929
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Group 170	48,861 87	45,559 31				
" 171	40,262 46	33,304 44				
" 172	14,624 41	9,444 51				
Class 17	103,748 74	88,308 26	7,747 14	9,094 36	60,486 35	74,579 61
Group 180	57,176 31	52,279 28				
" 181	29,632 25	29,646 57				
Class 18	86,808 56	81,925 85	2,486 34	5,628 89	22,916 22	24,656 38
Group 190	15,008 24	10,225 07				
" 191	39,125 11	66,723 32				
" 192	9,750 50	7,046 66				
" 193	9,770 67	7,464 30				
Class 19	73,654 52	91,459 35	3,309 02	2,977 59	43,341 61	25,868 21
Group 200	195,689 42	194,951 97				
" 201	95,582 23	83,618 21				
Class 20	291,271 65	278,570 18	4,480 93	9,103 80	—99 23	7,979 37
Group 210	212,656 83	211,794 06				
" 211	182,636 44	164,380 40				
Class 21	395,293 27	376,174 46	5,033 03	15,267 20	12,935 11	21,819 75
Group 220	117,767 45	71,351 61				
Class 22	117,767 45	71,351 61	2,173 05	12,962 00	—18,493 06	17,133 83
Group 230	188,234 37	157,665 93				
" 231	245,543 64	206,194 35				
" 232	66,063 82	59,258 63				
Class 23	499,841 83	423,118 91	25,426 69	26,797 15	172,108 28	247,460 74
Group 240	99,413 85	94,296 43				
" 241	35,034 14	29,901 47				
" 242	86,077 29	103,992 46				
" 243	24,399 54	21,624 42				
" 244	73,988 83	74,537 98				
" 245	81,603 96	67,183 59				
" 246	51,107 19	71,629 74				
" 247	34,602 78	26,248 64				
" 248	573,945 16	525,289 52				
" 249	7,772 42	3,722 55				
Class 24	1,067,945 16	1,018,426 80	15,234 18	41,233 10	23,753 57	47,273 01
Schedule 1	7,505,431 10	*6,861,274 51	†254,433 34	**426,808 69	1,078,880 11	1,550,661 35

*Includes $5,113.84 for Rehabilitation.
†Includes $9,194.02 reimbursement from D.P. & N.H.
**Includes $5,267.07 for Mine Rescue Work.

TABLE 16

NUMBER OF ACCIDENTS IN 1929 INVOLVING PAYMENT

Class	Medical Aid Only	Temporary Disability	Permanent Disability	Death	TOTALS
1	875	3,065	274	40	4,254
2	1,732	1,406	123	12	3,273
3	745	633	80	7	1,465
4	1,003	918	141	6	2,068
5	1,950	2,008	255	55	4,268
6	751	700	81	9	1,541
7	437	317	66	7	827
8	1,774	1,131	71	5	2,981
9	3,593	1,709	192	23	5,517
10	4,013	1,843	261	11	6,128
11	2,844	1,968	236	10	5,058
12	811	823	58	7	1,699
13	299	271	39	1	610
14	520	275	35	1	831
15	2,026	1,442	131	13	3,612
16	927	668	91	4	1,690
17	796	549	60	1	1,406
18	621	517	25	2	1,165
19	606	496	56	...	1,158
20	575	1,111	89	12	1,787
21	1,304	1,242	142	25	2,713
22	208	208	26	6	448
23	2,610	1,242	130	23	4,005
24	3,476	3,792	333	34	7,635
Schedule 2	.....	2,406	203	51	2,660
Crown Cases	86	2,180	174	52	2,492
TOTALS	34,582	32,920	3,372	417	71,291

TABLE 17

MONTH OF OCCURRENCE OF ACCIDENTS, 1929

Month of Occurrence	Medical Aid Only	Temporary Disability	Permanent Disability	Death	TOTALS
January	2,426	2,649	292	39	5,406
February	2,351	2,590	272	28	5,241
March	2,664	2,437	263	29	5,393
April	2,990	2,518	255	34	5,797
May	3,126	2,902	253	24	6,305
June	3,274	2,877	278	33	6,462
July	3,394	3,075	291	42	6,802
August	3,391	2,967	301	31	6,690
September	3,024	2,759	324	46	6,153
October	3,162	2,924	313	31	6,430
November	2,685	2,707	302	44	5,738
December	2,095	2,515	228	36	4,874
TOTALS	34,582	32,920	3,372	417	71,291

TABLE 18

LOCALITY OF ACCIDENTS, 1929

County or District	Medical Aid Only	Temporary Disability	Permanent Disability	Death	TOTALS
Algoma	440	1,060	99	17	1,616
Brant	660	454	56	6	1,176
Bruce	63	153	21	...	237
Carleton	668	979	94	10	1,751
Dufferin	16	31	2	...	49
Dundas	61	43	4	...	108
Durham	203	137	17	1	358
Elgin	162	242	16	3	423
Essex	2,290	1,424	169	11	3,894
Frontenac	487	311	35	2	835
Glengarry	14	35	2	...	51
Grenville	273	134	13	1	421
Grey	380	308	35	...	723
Haldimand	110	117	8	3	238
Haliburton	23	49	10	1	83
Halton	187	209	14	3	413
Hastings	495	545	65	10	1,115
Huron	89	167	14	1	271
Kenora	129	302	33	8	472
Kent	512	245	33	4	794
Lambton	351	436	47	9	843
Lanark	144	240	23	4	411
Leeds	288	192	30	3	513
Lennox and Addington	50	54	7	1	112
Lincoln	945	658	78	7	1,688
Manitoulin	4	30	4	1	39
Middlesex	646	796	72	9	1,523
Muskoka	65	173	16	5	259
Nipissing	68	470	42	11	591
Norfolk	140	139	17	1	297
Northumberland	54	87	8	2	151
Ontario	635	541	44	3	1,223
Oxford	441	312	38	4	795
Parry Sound	85	381	28	9	503
Patricia	147	78	5	5	235
Peel	68	124	16	...	208
Perth	263	302	29	7	601
Peterborough	472	375	39	4	890
Prescott	150	111	7	3	271
Prince Edward	12	31	2	1	46
Rainy River	256	411	21	10	698
Renfrew	357	434	44	2	837
Russell	56	22	5	...	83
Simcoe	855	658	63	9	1,585
Stormont	218	200	27	1	446
Sudbury	422	1,398	184	33	2,037
Temiskaming	2,302	2,023	211	28	4,564
Thunder Bay	565	1,195	98	8	1,866
Victoria	76	121	18	2	217
Waterloo	1,563	896	104	7	2,570
Welland	2,994	1,407	175	23	4,599
Wellington	442	449	50	4	945
Wentworth	3,032	2,265	308	28	5,633
York	9,124	8,912	763	90	18,889
Not in Ontario	30	54	9	2	95
TOTALS	34,582	32,920	3,372	417	71,291

TABLE 19

TIME LOSS, AVERAGE AGE, AND AVERAGE WAGE, 1929

Class	TIME LOSS*						AGE All Cases	WAGE All Cases
	Temporary Disability		Permanent Disability		Death Cases			
	Total Days	Average Days	Total Days	Average Days	Total Days	Average Days	Average Age (Years)	Average Weekly Wage
								$ c.
1	77,837	25.40	30,652	111.87	101	2.53	33.21	17.69
2	28,130	20.01	9,435	76.71	15	1.25	35.08	22.56
3	10,019	15.83	5,710	71.38	46	6.57	33.95	20.50
4	17,552	19.12	10,437	74.02	11	1.83	35.92	22.50
5	41,544	20.69	23,894	93.70	337	6.13	32.16	29 38
6	14,585	20.84	7,502	92.62	100	11.11	34.21	23 80
7	7,918	24.98	4,048	61.33	10	1.43	36.71	29 09
8	21,991	19.44	4,752	66.93	114	22.80	33.23	24 44
9	31,345	18.34	13,416	69.88	195	8.48	34.92	23 19
10	31,732	17.22	15,465	59.25	0	0	30.87	21 66
11	36,177	18.38	11,144	47.22	521	52.10	30.86	26 62
12	16,744	20.35	4,113	70.91	187	26.71	34.55	24 37
13	5,910	21.81	4,608	118.15	0	0	35.85	24 36
14	4,665	16.96	2,231	63.74	3	3.00	33.24	22 53
15	27,830	19.30	10,776	82.26	322	24.77	32.96	21 73
16	12,381	18.53	7,496	82.37	0	0	32.76	23 20
17	9,565	17.42	4,474	74.57	0	0	30.04	17 27
18	8,178	15.82	1,990	79.60	8	4.00	28.84	20 07
19	9,256	18.66	4,082	72.89	....	....	29.69	20 06
20	25,371	22.84	10,049	112.91	113	9.42	35.60	22 23
21	30,029	24.18	17,579	123.80	0	0	34.76	24 81
22	4,785	23.00	3,286	126.38	4	.67	37.46	26 42
23	29,603	23.83	15,484	119.11	0	0	33.61	27 21
24	82,496	21.76	43,050	129.28	109	3.21	34.76	25 56
Schedule 2	59,511	24.73	28,600	140.89	583	11.43	38.17	26 23
Crown. . .	48,312	22.16	22,907	131.65	981	18.87	38.42	26 00
All.	693,466	21.07	317,180	94.06	3,760	9.02	34.12	23 85

*This does not include loss of man power by permanent impairment or death.

TABLE 20

TOTAL AND AVERAGE COMPENSATION AND MEDICAL AID COSTS, 1929, SCHEDULE 1, BY CLASSES

Compensation Costs

Class	Temporary Disability Cases		Permanent Disability Cases				Death Cases						ALL CASES	
	For Temporary Disability		For Temporary Disability		For Permanent Disability		For Temporary Disability		For Death Benefits		For Funeral Expenses			
	Total	Average	Total	Average	Total	Average	Total	Average	Total	Average	Total	Average	Total	Average
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1	148,921 28	48.59	66,849 31	243.98	164,262 00	599.50	217.50	5.44	85,599 00	2,139 98	4,903 40	122 59	470,752 49	139.32
2	93,292 15	66.35	23,859 41	193.98	45,828 60	372.59	30.21	2.52	23,497 00	1,958 08	1,469 93	122.49	187,977 30	121.98
3	23,836 36	37.66	14,201 65	177.52	33,576 00	419.70	152.23	21.75	25,036 00	3,576 57	875 00	125.00	97,677 24	135.66
4	40,321.87	43.92	25,549 32	181.20	75,434 97	535.00	25.45	4.24	22,670 00	3,778 33	750 00	125 00	164,751 61	154 70
5	163,612 45	81.48	73,405 81	287 87	206,060 30	808 00	888 78	16 16	125,659 00	2,284 71	6,739 55	122 54	576,365 89	248 65
6	68,593 90	97 99	19,720 56	243 46	56,899 20	702 46	378 91	42 10	38,328 00	4,258 67	1,125 00	125 00	185,045 57	234 23
7	17,523 05	40 10	13,078 52	198 16	44,754 98	678 11	27 77	3 97	33,237 00	4,748 14	875 00	125 00	109,496 32	280 76
8	53,364 40	47 18	12,679 38	178 58	21,456 00	302 20	370 89	74 18	14,057 00	2,811 40	625 00	125 00	102,552 67	84 96
9	107,944 77	63 16	33,007 50	171 91	112,405 00	585 44	532 13	23 14	112,102 00	4,874 00	2,865 00	124 57	368,856 40	191 71
10	93,853 51	50 92	41,744 71	159 94	101,892 14	390 39	0	0	28,229 00	2,566 27	1,353 50	123 05	267,072 86	126 28
11	123,034 60	62 52	33,722 01	142 89	113,255 65	479 90	1,968 53	196 85	45,659 00	4,565 90	1,250 00	125 00	318,889 79	144 03
12	52,327 03	63 58	10,664 56	183 87	37,448 00	645 66	726 03	103 72	30,966 00	4,423 71	875 00	125 00	133,006 62	149 78
13	35,301 16	130 26	10,618 80	272 28	19,808 00	507 90	0	0	9,023 00	9,023 00	125 00	125 00	74,875 96	240 76
14	18,705 76	68 02	5,528 42	157 95	12,085 00	345 29	6 67	6 67	7,090 00	7,090 00	125 00	125 00	43,540 85	140 00
15	84,938 46	58 90	29,859 71	227 94	54,615 00	416 91	611 78	47 06	68,000 00	5,230 77	1,580 00	121 54	239,604 95	151 08
16	28,531 60	42.71	19,184 99	210 82	67,775 00	744 78	0	0	20,760 00	5,190 00	500 00	125 00	136,751 59	179 23
17	31,302 01	57 02	10,609 21	176 82	16,893 90	281 57	0	0	5,889 00	5,889 00	125 00	125 00	64,819 12	106 26
18	31,081 30	60 12	4,976 00	199 04	11,886 00	475 44	19 08	9 54	15,540 00	7,770 00	250 00	125 00	63,752 38	117 19
19	26,905 93	54 25	10,971 85	195 93	33,057 00	590 30	....	....	....	....	....	......	70,934 78	128 51
20	92,203 46	82 99	24,903 09	279 81	54,626 00	613 78	326 94	27 25	43,337 00	3,611 42	1,490 00	124 17	216,886 49	178 95
21	94,979 79	76 47	48,866 69	344 13	95,905 00	675 39	0	0	60,523 40	2,420 94	3,125 00	125 00	303,399 88	215 33
22	11,472 50	55 16	9,003 91	346 30	11,511 00	442 73	12 10	2 02	26,307 00	4,384 50	750 00	125 00	59,056 51	246 07
23	127,646 05	102 77	43,269 92	332 85	114,967 00	884 36	0	0	58,747 00	2,554 22	2,750 00	119 57	347,379 97	249 02
24	337,189 73	88 92	127,781 82	383 73	188,194 90	565 15	425 48	12 51	159,049 00	4,677 91	4,213 50	123 93	816,854 43	196 41
ALL	1,906,883 12	67 30	714,057 15	238 42	1,694,596 64	565 81	6,720 48	21 40	1,059,304 40	3,373 58	38,739 88	123 38	5,420,301 67	171 30

TABLE 20—Continued

Medical Aid Costs

Class	When Medical Aid Only		In Temporary Disability Cases		In Permanent Disability Cases		In Death Cases		FOR ALL CASES	
	Total	Average	Total	Average	Total	Average	Total	Average	Total	Average
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1	6,624 00	7 57	122,651 25	40 02	49,152 13	179 39	1,890 15	47 25	180,317 53	42 39
2	9,378 35	5 41	43,271 62	30 78	18,516 82	150 54	1,149 75	95 81	72,316 54	22 09
3	4,027 15	5 41	11,184 89	17 67	6,626 16	82 83	890 50	127 21	22,728 70	15 51
4	5,814 50	5 80	16,411 01	17 88	12,814 30	90 88	570 50	95 08	35,610 31	17 22
5	11,198 75	5 74	64,342 56	32 04	34,601 80	135 69	1,635 90	29 74	111,779 01	26 19
6	4,879 20	6 50	21,723 76	31 03	11,059 60	136 54	1,131 50	125 72	38,794 06	25 17
7	2,923 75	6 69	10,097 82	31 85	8,763 31	132 78	265 10	37 87	22,049 98	26 66
8	8,233 10	4 64	27,915 38	24 68	8,346 03	117 55	717 69	143 54	45,212 20	15 17
9	18,968 65	5 28	43,242 13	25 30	20,387 82	106 19	3,446 20	149 83	86,044 80	15 60
10	21,171 20	5 28	38,596 77	20 94	23,210 33	88 93	389 40	35 40	83,367 70	13 60
11	16,349 18	5 75	53,562 52	27 22	20,179 55	85 51	2,347 25	234 73	92,438 50	18 28
12	5,363 50	6 61	24,750 28	30 07	5,695 88	98 20	1,185 00	169 29	36,994 66	21 77
13	1,978 65	6 62	6,435 93	23 75	6,715 74	172 20	5 00	5 00	15,135 32	24 81
14	3,225 65	6 20	6,906 09	25 11	4,428 19	126 52	259 55	259 55	14,819 48	17 83
15	12,732 25	6 28	34,687 03	24 05	18,060 00	137 86	1,003 80	77 22	66,483 08	18 41
16	5,191 95	5 60	13,503 27	20 21	11,908 89	130 87	25 00	6 25	30,629 11	18 12
17	4,390 05	5 52	12,357 44	22 51	6,738 65	112 31	3 00	3 00	23,489 14	16 71
18	4,036 30	6 50	11,147 63	21 56	2,889 04	115 56	100 50	50 25	18,173 47	15 60
19	4,741 80	7 82	10,560 08	21 29	5,222 69	93 26	....	......	20,524 57	17 72
20	3,872 35	6 73	42,260 26	38 04	14,768 58	165 94	782 50	65 21	61,683 69	34 52
21	7,556 25	5 79	39,946 53	32 16	24,475 30	172 36	796 50	31 86	72,774 58	26 82
22	1,236 50	5 94	5,281 04	25 39	5,613 56	215 91	164 00	27 33	12,295 10	27 44
23	12,484 25	4 78	44,376 00	35 73	18,530 99	142 55	347 70	15 12	75,738 94	18 91
24	20,149 00	5 80	122,481 10	32 30	56,596 92	169 96	2,345 35	68 98	201,572 37	26 40
ALL	196,526 33	5 70	827,692 39	29 21	395,302 28	131 99	21,451 84	68 32	1,440,972 84	21 79

TABLE 21

ALLEGIANCE OF INJURED WORKERS, 1929

Allegiance to	Temporary Disability	Permanent Disability	Death	TOTALS
Argentine	1	1	....	2
Austria	524	45	5	574
Belgium	15	3	....	18
Brazil	2	....	....	2
Bulgaria	41	3	....	44
Chile	13	....	....	13
China	9	1	....	10
Czecho-Slovakia	590	64	8	662
Denmark	64	5	....	69
Esthonia	8	....	....	8
Finland	687	73	11	771
France	121	17	....	138
Germany	143	19	....	162
Great Britain	27,138	2,828	345	30,311
Greece	32	1	1	34
Holland	17	2	....	19
Italy	682	54	14	750
Japan	9	....	....	9
Jugo-Slavia	361	27	4	392
Latvia	2	....	....	2
Lithuania	16	3	....	19
Mexico	1	....	....	1
Norway	47	18	1	66
Persia	4	....	1	5
Poland	1,103	89	10	1,202
Portugal	5	....	....	5
Roumania	164	14	1	179
Russia	643	52	9	704
Spain	5	....	....	5
Sweden	215	17	3	235
Switzerland	5	....	....	5
Turkey	28	3	1	32
United States	225	33	3	261
TOTALS	32,920	3,372	417	36,709

TABLE 22

SEX AND MARITAL CONDITION OF INJURED WORKERS, 1929

Sex and Marital Condition	Temporary Disability	Permanent Disability	Death	TOTALS
Males—				
Married	19,432	2,135	271	21,838
Single	12,458	1,106	93	13,657
Widowed	452	64	9	525
Not specified	292	26	44	362
Totals	32,634	3,331	417	36,382
Females—				
Married	37	4	....	41
Single	209	32	....	241
Widowed	38	3	....	41
Not specified	2	2	....	4
Totals	286	41	....	327
GRAND TOTALS	32,920	3,372	417	36,709

TABLE 23

WEEK OF TERMINATION OF TEMPORARY DISABILITIES, 1929

In	15,383	cases	the	disability	terminated in	1	to	2	weeks	after the accident.
"	6,119	"	"	"	"	2	"	3	"	"
"	3,513	"	"	"	"	3	"	4	"	"
"	2,215	"	"	"	"	4	"	5	"	"
"	1,494	"	"	"	"	5	"	6	"	"
"	979	"	"	"	"	6	"	7	"	"
"	694	"	"	"	"	7	"	8	"	"
"	555	"	"	"	"	8	"	9	"	"
"	391	"	"	"	"	9	"	10	"	"
"	272	"	"	"	"	10	"	11	"	"
"	215	"	"	"	"	11	"	12	"	"
"	197	"	"	"	"	12	"	13	"	"
"	144	"	"	"	"	13	"	14	"	"
"	96	"	"	"	"	14	"	15		"
"	91	"	"	"	"	15	"	16	"	"
"	81	"	"	"	"	16	"	17	"	"
"	65	"	"	"	"	17	"	18	"	"
"	53	"	"	"	"	18	"	19	"	"
"	49	"	"	"	"	19	"	20	"	"
"	45	"	"	"	"	20	"	21	"	"
"	32	"	"	"	"	21	"	22	"	"
"	29	"	"	"	"	22	"	23	"	"
"	25	"	"	"	"	23	"	24	"	"
"	16	"	"	"	"	24	"	25	"	"
"	20	"	"	"	"	25	"	26	"	"
"	11	"	"	"	"	26	"	27	"	"
"	11	"	"	"	"	27	"	28	"	"
"	13	"	"	"	"	28	"	29	"	"
"	10	"	"	"	"	29	"	30	"	"
"	8	"	"	"	"	30	"	31	"	"
"	4	"	"	"	"	31	"	32	"	"
"	6	"	"	"	"	32	"	33	"	"
"	7	"	"	"	"	33	"	34	"	"
"	12	"	"	"	"	34	"	35	"	"
"	2	"	"	"	"	35	"	36	"	"
"	45	"	"	"	"	36	"	52	"	"
"	18	"	"	"	did not terminate in			52	"	"
	32,920	TOTAL CASES								

TABLE 24

NATURE OF INJURIES, 1929

Temporary Disability Cases

Class	Bruises, Contusions and Abrasions	Cuts, Lacerations, and Punctures	Fractures	Crushes	Sprains, Strains, Twistings, and Wrenchings	Scalds and Burns	Eye Injuries	Herniae	Internal Injuries	Concussions (brain, spine, etc.)	Dislocations	All Other Injuries	IndustrialDiseases (Schedule 3)	TOTALS
1......	950	1,188	357	192	196	25	64	10	3	14	26	40	....	3,065
2......	376	492	159	113	144	42	35	10	....	2	10	22	1	1,406
3......	115	371	39	38	33	10	16	5	2	2	1	1	....	633
4......	176	476	81	79	54	16	18	7	....	1	9	1	....	918
5......	536	702	215	189	134	80	114	16	1	5	5	8	3	2,008
6......	174	239	109	74	45	17	34	1	1	1	3	2	....	700
7......	107	81	38	18	22	35	13	....	....	1	1	1	....	317
8......	212	324	99	107	50	238	84	....	....	....	1	7	9	1,131
9......	416	589	222	198	106	93	62	8	1	3	6	5	....	1,709
10......	272	896	156	178	96	110	86	8	5	....	5	6	25	1,843
11......	469	831	193	127	132	106	79	13	....	6	8	3	1	1,968
12......	213	206	115	84	88	68	21	8	1	5	5	8	1	823
13......	72	79	33	28	33	5	8	1	1	3	5	3	....	271
14......	54	155	10	10	28	7	5	3	....	....	2	1	....	275
15......	360	554	167	86	148	84	15	5	2	2	11	8	....	1,442
16......	160	252	82	66	52	31	17	4	....	1	2	1	....	668
17......	101	288	43	45	35	23	6	1	....	2	5	....	....	549
18......	82	306	27	32	31	28	8	1	....	....	1	1	....	517
19......	91	223	40	70	32	20	11	1	....	2	5	1	....	496
20......	353	281	175	90	142	21	15	6	3	4	13	8	....	1,111
21......	383	378	163	122	101	31	37	4	2	....	10	11	....	1,242
22......	60	57	25	14	26	15	6	....	2	1	....	2	....	208
23......	402	351	179	99	95	42	44	7	2	5	9	7	....	1,242
24......	1,040	1,303	465	236	388	154	115	15	6	11	43	15	1	3,792
Sched. 2.	773	559	355	164	342	84	61	18	....	11	17	21	1	2,406
Crown..	712	531	272	202	288	63	57	11	3	4	29	8	....	2,180
ALL....	8,659	11,712	3,819	2,661	2,841	1,448	1,031	163	35	86	232	191	42	32,920

TABLE 24—Continued

Permanent Disability Cases

Part of Body Affected	Per Cent. Impairment of Total Earning Capacity											
	0.0– 9.9	10.0–19.9	20.0–29.9	30.0–39.9	40.0–49.9	50.0–59.9	60.0–69.9	70.0–79.9	80.0–89.9	90.0–99.9	100.	TOTALS
Foot	194	4	2	1	2	....	....	....	....	....	....	203
Leg	308	10	4	2	10	9	2	3	....	....	1	349
Head	68	2	1	....	1	....	1	....	....	....	3	76
Face	30	....	....	....	....	....	....	....	....	....	....	30
Eye	112	137	6	1	....	1	....	1	....	....	4	262
Ear	18	....	....	....	....	....	....	....	....	....	....	18
Teeth	239	....	....	....	....	....	....	....	....	....	....	239
Arm	237	2	4	9	9	3	8	5	....	....	1	278
Hand	112	21	13	23	1	3	....	....	....	....	....	173
Thumb and three fingers	1	....	1	....	....	....	....	....	....	....	....	2
Thumb and two fingers	4	1	1	....	....	....	....	....	....	....	....	6
Thumb and one finger	5	....	....	....	....	....	....	....	....	....	....	5
Thumb	261	6	....	1	....	....	....	....	....	....	....	268
One finger	1,037	4	2	1	....	1	....	....	....	....	....	1,045
Two fingers	145	2	....	1	....	....	....	....	....	....	....	148
Three fingers	45	5	2	1	....	....	....	....	....	....	....	53
Four fingers	14	4	13	1	....	....	....	....	....	....	....	32
Internal organs	8	....	....	....	....	1	....	....	....	....	....	9
Industrial diseases	27	....	....	....	....	....	....	....	....	....	....	27
All other	128	1	3	3	....	4	2	3	....	....	5	149
TOTALS	2,993	199	52	44	23	22	13	12	....	....	14	3,372

Industrial Diseases

Description of Disease	Medical Aid Only	Temporary Disability	Permanent Disability	Death	TOTALS
Lead poisoning or its sequelae	..	38	3	..	41
Silicosis and miners' phthisis	2	1	21	7	31
Caisson disease	1	..	2	1	4
Mercury poisoning or its sequelae	..	3	1	..	4
TOTALS	3	42	27	8	80

TABLE 25

CAUSES OF ACCIDENTS, 1929

Cause	Medical Aid Only	Temp. Dis.	Perm. Dis.	Death	TOTALS
A. Prime Movers:					
1. Motors, engines, fans, pumps, and automatic stokers	127	84	28	1	240
2. Shafting, coupling, collars, set-screws, and keys	38	33	8	3	82
3. Belts, lines, pulleys, chains, and sprockets	217	210	51	3	481
4. Gears, cogs, cams, and friction wheels	85	70	30	1	186
Totals	467	397	117	8	989
B. Working Machines:					
1. Brick-making machines	....	6	3	....	9
2. Glass-making machines	....	4	2	....	6
3. Pottery-making machines	1	3	....	....	4
4. Stone-working machines	24	24	5	1	54
5. Mining machines, n.e.s	5	12	4	....	21
6. Mine drills	132	162	25	....	319
7. Contracting machines	30	120	22	3	175
8. Metal-working machines	317	178	23	....	518
9. Abrasive wheels	2,508	249	40	....	2,797
10. Drilling and reaming machines	470	190	32	....	692
11. Lathes	473	163	28	1	665
12. Milling machines	78	52	6	....	136
13. Pneumatic tools	561	168	26	....	755
14. Presses—cutting, shaping, forming	276	375	153	....	804
15. Shearing and punching machines	60	62	17	....	139
16. Wire-working machines	24	29	3	....	56
17. Welding and heat-cutting machines	109	31	3	....	143
18. Wood-working machines, n.e.s	121	139	22	2	284
19. Planers, jointers, and edgers	122	183	54	....	359
20. Saws	523	683	183	8	1,397
21. Shapers, moulders, and headers	95	85	32	1	213
22. Pulp and paper-making machines, n.e.s	37	7	1	....	45
23 Barkers	16	13	3	....	32
24. In-running rolls	55	81	18	2	156
25. Paper products and printing machines, n.e.s	....	3	2	....	5
26. Cutting machines	22	20	4	....	46
27. Presses—printing and embossing	60	104	28	....	192
28. Stayers	27	39	5	....	71
29. Tanning machines	2	4	3	....	9
30. Leather-working machines	40	40	11	....	91
31. Rubber-working machines	43	66	19	2	130
32. Textile machines, n.e.	20	24	7	....	51
33. Carders	9	9	....	....	118
34. Pickers	8	13	7	....	28
35. Sewers	194	157	3	....	354
36. Finishers and launderers	20	25	4	....	49
37. Knitters	30	39	7	....	76
38. Cutters	25	22	3	....	50
39. Weavers	57	52	7	....	116
40. Spinners	2	7	3	....	12
41. Food-products, laboratory, and tobacco machines, n.e.s	82	100	38	....	220
42. Baking machines	2	18	12	....	32
43. Bottling machines	44	29	7	....	80
44. Office machines	3	1	1	....	5
Totals	6,727	3,791	876	20	11,414

TABLE 25—Continued

Cause	Medical Aid Only	Temp. Dis.	Perm. Dis.	Death	TOTALS
C. Hoisting Apparatus:					
1. Elevators	45	100	22	1	168
2. Cranes	107	187	52	14	360
3. Conveyors	118	119	29	....	266
4. Mine cages	16	22	2	3	43
5. Other hoisting apparatus	146	452	87	18	703
Totals	432	880	192	36	1,540
D. Dangerous Substances:					
1. Steam escapes	59	115	2	....	176
2. Explosives	73	136	37	31	277
3. Electric currents	57	95	12	20	184
4. Conflagrations	2	5	....	1	8
5. Hot and inflammable substances and flames	1,021	915	38	8	1,982
6. Corrosive substances	186	108	9	....	303
7. Poisonous and deleterious substances	15	70	30	9	124
Totals	1,413	1,444	128	69	3,054
E. Stepping on or Striking Against Objects:					
1. Stepping on objects	956	701	4	....	1,661
2. Striking against objects	4,725	2,356	130	7	7,218
Totals	5,681	3,057	134	7	8,879
F. Falling Objects:					
1. From collapse of structure	12	25	6	....	43
2. From elevations	646	747	63	8	1,464
3. In mines and quarries	228	582	58	5	873
4. Other	40	356	32	18	446
Totals	926	1,710	159	31	2,826
G. Handling Objects:					
1. Heavy objects—loading, carrying, rolling, or piling	6,605	8,200	419	21	15,245
2. Sharp objects	527	390	21	....	938
3. Hand trucks, carts, and wheelbarrows	319	610	31	4	964
Totals	7,451	9,200	471	25	17,147
H. Tools:	2,928	3,285	296	5	6,514
I. Runaways and Animals:					
1. Runaways	8	51	8	1	68
2. Animals	79	215	23	5	322
Totals	87	266	31	6	390

TABLE 25—Continued

Cause	Medical Aid Only	Temp. Dis.	Perm. Dis.	Death	TOTALS
J. Moving Trains, Vehicles, etc.:					
1. Train wrecks	2	76	9	28	115
2. Caught in switch or hit fixed objects	4	27	2	1	34
3. Struck by or caught between cars and engines	16	137	34	35	222
4. Other causes, cars, and engines	1	71	9	....	81
5. Mine and quarry cars	28	138	19	1	186
6. Automobiles and other power vehicles	385	744	88	28	1,245
7. Animal-drawn vehicles	82	233	19	2	336
8. All other vehicles	8	29	6	....	43
Totals	526	1,455	186	95	2,262
K. Falls of Person :					
1. From elevations	119	420	90	23	652
2. From ladders	162	527	53	3	745
3. Into excavations, pits, and shafts	22	181	15	8	226
4. On level	1,296	3,422	196	8	4,922
5. Into elevator shafts	5	7	4	1	17
6. From vehicles	119	746	55	15	935
7. From collapse of support	56	359	69	12	496
8. On steps or stairways	136	251	18	1	406
9. Into tanks or vats	....	1	1	....	2
10. From tool slipping	21	77	1	1	100
Totals	1,936	5,991	502	72	8,501
L. All Other Causes:					
1. Flying fragments	5,614	862	211	1	6,688
2. Doors, gates, windows, and covers	341	351	30	....	722
3. Inhalation of gases, fumes, etc	29	34	1	6	70
4. Immersion in water and drenchings	....	3	1	23	27
5. Exposure to elements	19	82	16	1	118
6. Violence	5	7	....	....	12
7. Cave-ins	....	97	19	11	127
8. Not elsewhere specified	....	8	2	1	11
Totals	6,008	1,444	280	43	7,775
GRAND TOTALS	34,582	32,920	3,372	417	71,291

TABLE 26

BLOOD-POISONING CASES, 1929

Ascribed to time of injury	243
Developed 1 day after injury	353
“ 2 days “ “	307
“ 3 “ “ “	276
“ 4 “ “ “	198
“ 5 “ “ “	159
“ 6 “ “ “	101
“ 7 “ “ “	88
“ 8 “ “ “	60
“ 9 “ “ “	47
“ 10 “ “ “	27
“ 11 “ “ “	24
“ 12 “ “ “	14
“ 13 “ “ “	12
“ 14 “ “ “	13
“ 15 “ “ “	12
“ 16 “ “ “	11
“ 17 “ “ “	8
“ 18 “ “ “	4
“ 19 “ “ “	8
“ 20 “ “ “	3
“ 21 “ “ “	7
“ 22 “ “ “	5
“ 23 “ “ “	3
“ 24 “ “ “	3
“ 25 “ “ “	1
“ 26 “ “ “	6
“ 28 “ “ “	2
“ 29 “ “ “	1
“ 32 “ “ “	1
“ 35 “ “ “	2
“ 39 “ “ “	2
“ 49 “ “ “	1
“ 55 “ “ “	1
“ 66 “ “ “	1
“ 74 “ “ “	1
Immobilized joints due to infections	18
Amputations due to infections	13
Permanent eye injuries due to infections	3
Deaths due to infections	8
TOTAL CASES OF INFECTIONS	2,047

TABLE 27

DEATH CASES, 1929

Number of Cases

Pension Awards	217
Lump Sums	102
Burial Expenses and Medical Aid only	64
Burial Expenses only	34
TOTALS	417

Number, Relationship, and Residence of Dependants

Relationship of Dependants	Resident In Ontario	Not Resident in Ontario	TOTALS
Widow	210	25	235
Child	388	63	451
Mother	46	17	63
Father	45	17	62
Other	....	....	....
TOTALS	689	122	811

APPENDIX

SUMMARY OF COMPENSATION AND MEDICAL AID AWARDED

From Commencement of Act to End of 1930

Compensation Awarded

Schedule 1 Industries	$56,654,554 27
Schedule 2 (including Crown Cases)	17,910,069 98
Total Compensation	$74,564,624 25

Medical Aid Paid

Schedule 1 Industries	$11,338,601 50
Schedule 2 (including Crown Cases) furnished by Employer	
Total Benefits Awarded by Board	$85,903,225 75

SUMMARY OF ACCIDENTS REPORTED

From Commencement of Act to End of 1930

Schedule 1 Industries	745,055
Schedule 2 (including Crown Cases)	130,622
Total Number of Accidents Reported	875,677

FINANCIAL STATEMENT FOR SCHEDULE 1 INDUSTRIES

From Commencement of Act to End of 1930

Income and Credits

Net assessments received		$72,155,599 04
Received under Section 8		80,428 88
Received under Section 83 (4)		51,706 16
Received under Section 105		119,114 25
Received under Sec. 112 (3)		4,668 87
Received from D.P. & N.H.		150,429 06
Interest received		2,026,111 85
Credited from Disaster Reserve		227,459 08
Credited from Pension Fund		1,027,214 62
Assessments estimated to be due on adjustment of 1930 payrolls	$363,808 27	
Less: Merit Rating Refunds to be made	123,661 83	
		240,146 44
		$76,082,878 25

Expenditure and Charges

Compensation paid other than pensions, compensation deferred, and under Secs. 22 and 36	$30,480,742 66
Pensions awarded	25,124,592 68
Deferred Compensation awarded	689,642 06
Paid under Section 22	996 40
Paid under Section 36	41 75
Paid under Section 8	7,085 49
Medical Aid paid	11,317,074 92
Administration Expenses paid	2,500,532 18
Paid to Safety Associations	1,220,196 77
Rehabilitation paid	21,481 78
Transferred to Disaster Reserve	353,259 80
Compensation estimated outstanding	2,258,262 87
Medical Aid estimated outstanding	562,430 06
Paid under Mine Rescue Work	30,240 22
Balance at Credit of Classes	1,516,298 61
	$76,082,878 25

SUMMARY OF PENSION FUND, SCHEDULE 1

From Commencement of Act to End of 1930

Pension awards	$25,044,133 60
Amount transferred from Disaster Reserve	80,459 08
Amount transferred from Silicosis Account	106,448 00
Interest added	7,150,066 27
	$32,381,106 95
Pension payments	$12,890,560 00
	$19,490,546 95
Amount transferred to Current Fund	1,027,214 62
Balance December 31, 1930	$18,463,332 33

SUMMARY OF COMPENSATION DEFERRED, SCHEDULE 1

From Commencement of Act to End of 1930

Compensation deferred	$689,642 06
Interest added	84,398 50
	$774,040 56
Amounts paid on Compensation Deferred, Principal and Interest	659,672 54
Balance December 31, 1930	$114,368 02

SUMMARY OF DISASTER RESERVE, SCHEDULE 1

From Commencement of Act to End of 1930

Amount set aside	$353,259 80
Interest added	143,697 44
	$496,957 24
Transferred to classes	227,459 08
Balance December 31, 1930	$269,498 16

SUMMARY OF SILICOSIS ACCOUNT, SCHEDULE 1

From Commencement of Act to End of 1930

Assessments collected		$443,821 71
Interest added		30,210 60
		$474,032 31
Payments made:		
For Compensation	$336,739 89	
For Medical Aid	21,526 58	
For Salaries and Expenses	91,966 71	
For Handling Claims and Supervision	33,992 13	
For Salaries and Expenses of Referee Board	11,095 80	
		$495,321 11
Balance, December 31, 1930, Debit		$21,288 80

SUMMARY OF INVESTMENTS, SCHEDULE 1

From Commencement of Act to End of 1930

Invested	$34,864,736 46
Less principal returned	12,187,969 72
Book Value of Investments, December 31, 1930, Principal	22,676,766 74
Plus accrued interest not received or apportioned	255,041 18
Total Book Value of Investments, December 31, 1930	$22,931,807 92

SUMMARY OF SCHEDULE 2 FUNDS

From Commencement of Act to End of 1930

Received from employers		$12,600,655 72
Interest received		2,084,207 38
		$14,684,863 10
Payments made	$10,537,780 72	
Deposits returned to employers	512,758 57	
		$11,050,539 29
Cash in Bank and Invested, December 31, 1930		$3,634,323 81

SUMMARY OF INVESTMENTS, SCHEDULE 2

From Commencement of Act to End of 1930

Invested	$3,918,003 59
Less principal returned	377,062 69
Book Value of Investments, December 31, 1930, Principal	3,540,940 90
Plus accrued interest not received or apportioned	34,725 67
Total Book Value of Investments, December 31, 1930	$3,575,666 57

SUMMARY OF RECEIPTS AND PAYMENTS

From Commencement of Act to End of 1930

Schedule 1

Receipts		
Assessments, including additional assessments, added percentage, and interest for under or over estimate	$72,804,331 17	
Less Merit Rating (Charges..$1,067,195 43 Refunds... 1,715,927 56)	—648,732 13	
		$72,155,599 04
Under Section 8		80,428 88
Under Section 83 (4)		51,706 16
Under Section 105		119,114 25
Under Section 112 (3)		4,668 87
From D.P. & N.H		150,429 06
From Silicosis		443,821 71
From Province of Ontario under Section 77, grants for administration expenses		655,500 00
From Schedule 2 and Crown employers for share of administration expenses		436,898 38
Interest from investments and bank deposits		9,434,484 66
Principal returned from investments		12,187,969 72
From Special Statistical Services		7,630 00
		$95,728,250 73

Payments	
Compensation payments other than on pensions or deferred awards or under Sections 22 or 36	$30,480,742 66
Paid on Pensions	12,890,560 00
Paid on Deferred Awards, principal and interest	659,672 54
Under Section 22	996 40
Under former Section 36	41 75
Under Section 8	7,085 49
For Medical Aid	11,317,074 92
For Rehabilitation	21,481 78
For Administration Expenses	3,683,047 95
For Safety Associations	1,220,196 77
For Investments	34,864,736 46
For Silicosis	354,880 98
For Mine Rescue Work	30,240 22
Overpayment of Administration Expenses from Schedule 2 employers (refunded in 1926)	12
Cash in bank, Dec. 31, 1930	197,492 69
	$95,728,250 73

Schedule 2

RECEIPTS	
From Employers for Deposits under Section 28 and for Claimants' Moneys.......	$5,485,293 06
From Employers for Deposits under Section 32.........	7,115,362 66
Interest from Investments and Bank Deposits.......	2,084,207 38
Principal returned from investments...............	377,062 69
	$15,061,925 79

PAYMENTS	
To Claimants out of Deposits under Section 28 and Claimants' Moneys.......	$3,509,213 99
Returned to Employers out of Deposits under Section 28......................	477,142 66
Paid out of Deposits under Section 32:	
To Claimants............	7,026,133 17
Returned to Employers...	29,846 41
To Schedule 1 for Administration Expenses.......	5,769 50
Rehabilitation paid.........	2,433 56
For Investments...........	3,918,003 59
Cash in Bank, Dec. 31, 1930	93,382 91
	$15,061,925 79

AUDITORS' CERTIFICATE

THE WORKMEN'S COMPENSATION BOARD OF ONTARIO,
Metropolitan Building, Toronto, Ontario.

Gentlemen:

We have completed a continuous audit of the books of the Board for the year ended December 31, 1930, and have obtained all the information and explanations that we have required.

In our opinion, the Statements of Receipts and Disbursements, Table 6, Schedules 1 and 2, do fully and fairly set forth the cash transactions of the Board for the Calendar Year 1930.

Bank balances on hand at the close of the period have been verified by communication with the Board's bankers.

The investments of the Board, as shown by the books as at December 31, 1930, amounting to $25,647,009.06, have also been verified by actual count.

Respectfully submitted,

FRED PAGE HIGGINS & CO.,
Chartered Accountants.

Toronto, March 6, 1931.

TABLE 6

STATEMENT OF RECEIPTS AND PAYMENTS DURING 1930

SCHEDULE 1

RECEIPTS		
Cash in Banks, Jan. 1, 1930:		
Can. Bank of Commerce	$325 78	
Royal Bank of Canada.	715 13	
		$1,040 91
Net Assessments, Penalties, etc., collected:		
Gross Assessments.....	$7,941,993 23	
Under Sec. 8 .	9,306 62	
Under Sec. 105	8,295 97	
Under Sec. 112 (3)	615 71	
From D. P. & N.H.......	15,686 78	
	$7,975,898 31	
Less:		
Assessments and Penalties refunded	$89,379 91	
Merit Rating Refunds...	106,290 24	
	$195,670 15	
		$7,780,228 16
Interest....................		1,137,877 85
From Schedule 2 employers and Dominion Crown for administration expenses account of prior years paid out of Schedule 1 in 1929............		46,811 14
Principal returned from investments.......	$1,072,515 82	
Decrease in value of investments by amortization of premiums........	67,269 92	
		$1,139,785 74
Silicosis....................		223 29
Special Statistical Services...		7,630 00
		$10,113,597 09

PAYMENTS		
Overdraft — Dominion Bank, Jan. 1, 1930...........		$260,903 18
Compensation paid other than Pensions and Compensation Deferred.................		2,927,897 73
Pensions Paid..............		1,685,208 41
Deferred Compensation paid .		53,215 29
Rehabilitation paid.........		4,397 67
Medical Aid paid...........		1,327,042 65
Silicosis paid...............		103,689 01
Paid under Section 8........		968 25
Mine Rescue Work paid.....		24,973 15
Administration Expenses.....		354,629 73
Paid to Safety Associations...		146,929 22
Invested.......	$2,992,229 50	
Increase in value of investments by accumulation of discounts.......	34,020 61	
		$3,026,250 11
Cash in Banks, Dec. 31, 1930:		
Dominion Bank	$180,634 48	
Can. Bank of Commerce.	1,351 49	
Royal Bank of Canada....	15,506 72	
		197,492 69
		$10,113,597 09

Schedule 2

RECEIPTS

Cash in Imperial Bank, Jan. 1, 1930		$81,337 31
From Employers for Deposits under Section 28		178,146 08
From Employers for Claimants' Moneys		2,355 00
From Employers for Deposits under Section 32		810,589 94
Interest		194,112 23
Principal returned from investments	0 00	
Decrease in value of investments by amortization of premiums	$1,410 81	
		1,410 81
		$1,267,951 37

PAYMENTS

To Claimants out of Deposits under Section 28		$329,814 52
Deposits returned to Employers under Section 28		24,253 75
To Claimants out of Claimants' Moneys:		
Principal	$6,176 53	
Interest	151 84	
		6,328 37
Paid out of Deposits under Section 32:		
For Compensation	768,746 57	
For Medical Aid	34,341 88	
		803,088 45
Deposits returned to Employers under Section 32		3,718 33
Invested	835 06	
Increase in value of investments by accumulation of discounts	6,529 98	
		7,365 04
Cashi n Imperial Bank, Dec. 31, 1930		93,382 91
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Ontario Department of Agriculture

REPORT

OF THE

Ontario Veterinary College
1930

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1931

Report of the

Ontario Veterinary College

To The Honourable Thomas L. Kennedy,
Minister of Agriculture.

Sir,—

I have the honour to present herewith the following report of the Ontario Veterinary College for the year extending from November 1st, 1929, to October 31st, 1930.

Commencement Exercises

The Annual Commencement Exercises and Presentation of Prizes took place on November 15th, 1929, in the Assembly Hall at the College. On behalf of the College, I presided as Chairman, and those delivering addresses included Jas. Brebner, B.A., LL.D., Registrar of the University of Toronto, Ven. Archdeacon G. F. Scovil, Rector of St. George's Church, and G. I. Christie, B.S.A., D.Sc., President of the Ontario Agricultural College. Dr. Brebner was the chief speaker, and he delivered an inspiring address. He interestingly reviewed the history of the College from its inception, and alluded to the part played by Prof. Geo. Buckland, who eighty years ago was Professor of Agriculture at the University of Toronto and a member of the Board of Agriculture for Upper Canada. Prof. Buckland visualized the need for veterinary education and was instrumental, in conjunction with the Hon. Adam Fergusson, in having the College established during the year 1862. Since that time the University of Toronto has always been keenly interested in the welfare of the College. The course in veterinary science has from the beginning progressed in common with the other learned professions. The need for keeping abreast of the times has been fully recognized by raising the standard of qualification for entrance and extending the course of instruction. He urged the students to maintain high ideals, to make lasting friendships, to know their fellow students, to know the men who are their instructors, and on graduation to take an active part in the civic life of their various communities. In concluding, he stressed the fact that while there were many motives for the young man acquiring a college education that unless the driving force was a desire and belief that we can do good for our fellow man and the community in which we live, we have failed from the start. In presenting the prizes, Ven. Archdeacon Scovil congratulated the winners and expressed the hope that they would prove worthy of the honours and strive to help others.

Student Enrolment

It is pleasing to report that the student enrolment has markedly increased. For the session ending April 30th, 1930, a total of 79 students were in regular attendance, of which 20 were in the first year class, 25 in the second year class, 19 in the third year class, and 15 in the senior class. Of the senior class 15 were successful in passing the final examinations and were graduated with the degree of Bachelor of Veterinary Science (B.V.Sc.) conferred by the University of Toronto at a Special Convocation held on April 30th, 1930. During the present session, which commenced on October 1st, 1930, a total of 97 students have registered (an increase of 18 over the previous year), of which 36 are in the first year class, 19 in the second year class, 23 in the third year class, and 19 in the senior class. The requirements for University entrance are being complied with and less difficulty is being encountered in obtaining candidates with complete high school training and matriculation standing. Students were enrolled from each of the Provinces of Canada, as well as from distant parts of the British Empire and from many parts of the United States. The successful record of our graduates is also worthy of mention, in that all of our recent graduates have been successful in passing the civil service examinations for appointment as veterinary inspectors under the respective governmental departments. The demand for graduate veterinarians is also very encouraging, reflecting an increased interest in the promotion of animal husbandry by conserving the health of farm animals.

THE TEACHING STAFF

No changes have been made in the personnel of the staff during this year. Further leave of absence was granted Dr. R. Gwatkin to enable him to continue his work under the direction of the Ontario Research Foundation. The personnel of the staff and their respective departments are as follows:

C. D. McGilvray, M.D.V., D.V.Sc., Principal, Contagious Diseases, Sanitary Service.
J. N. Pringle, M.R.C.V.S., B.V.Sc., Sporadic Diseases, Dentistry.
R. A. McIntosh, M.D.V., B.V.Sc., Diseases of Cattle, Obstetrics, Pharmacy, Therapeutics.
W. J. R. Fowler, V.S., B.V.Sc., Surgery, Lameness, Materia Medica.
H. D. Nelson, B.V.Sc., D.V.Sc., Anatomy.
R. Gwatkin, B.V.Sc., D.V.Sc., Bacteriology, Milk Hygiene.
H. E. Batt, V.S., B.V.Sc., Zoology, Histology, Meat Hygiene.
F. W. Schofield, B.V.Sc., D.V.Sc., Pathology, Bacteriology.
A. A. Kingscote, V.S., B.V.Sc., Parasitology, Pathology.
L. Stevenson, B.V.Sc., M.S., Physiology.
J. S. Glover, V.S., B.V.Sc., Serologist, Poultry Diseases.
F. J. Cote, V.S., B.V.Sc., Canine and Feline Diseases.
Angus Dunbar, Jurisprudence.

COURSES OF STUDY AND INSTRUCTION

The regular undergraduate course is being further diversified in keeping with new developments. Additional attention is being given to pure science as well as clinical instruction and routine laboratory technique. The subject of Biology is receiving greater attention and a special course of instruction has been introduced relating to fur-bearing animals. A detailed outline of the undergraduate course of study and instruction is contained in the College Calendar which is distributed to those interested. During the month of July a special course of study was arranged under the auspices of the Ontario Provincial Silver Fox Breeders' Association relating to the Fox industry. The course of instruction was provided by the Staff of the College aided by the staff of the Governmental Experimental Fur Farm at Kirkfield. The attendance was very gratifying, there being 72 breeders present for the full course. The subjects dealt with included the following:

Hygiene and Sanitation:
(a) Selection of the fox ranch; desirable and undesirable locations.
(b) Housing and pen arrangements; sheds, kennels and cook houses.

Breeding Problems:
(a) Selective mating.
(b) Obstetrical anatomy and reproductive functions.
(c) Management of the pregnant female and care of the new born.

Common Diseases of the Fox:
(a) Diseases of the respiratory system.
(b) Diseases of the digestive system.
(c) Food poisoning.
(d) Rickets.
(e) Miscellaneous diseases.

Infectious Diseases:
(a) Epizootic encephalitis.
(b) Para-typhoid fever.
(c) Distemper.
(d) Contagious lobar pneumonia.
(e) Tuberculosis.

Parasitic Diseases:
(a) External parasites; control of ear mites, body mange and fleas.
(b) Internal parasites; control of lung worms, hook and round worms, tape worms, bladder worms and coccidiosis.

Miscellaneous Topics:
(a) Disinfectants; their use and application.
(b) Feeds and feeding.
(c) Requirements of a good pelt.
(d) Loss of "tips" in pups.

A special conference was also provided for graduates during the month of July, which was attended by 60 veterinarians. The course was designed to meet the needs of those attending, and related to poultry diseases, their diagnosis, treatment and prevention; cattle diseases, including, infectious abortion, its prevention and control; hemorrhagic septicemia in cattle, sheep and swine; anemia in young pigs; diseases of new born animals; parasitic diseases of animals; diseases of breeding animals; biologics, their proper choice and application; dairy hygiene, including dairy and stable inspection. Special clinics and demonstrations were also arranged so as to correlate with the lectures.

An arrangement has now been entered into with the University of Toronto to provide graduate work leading to the advanced Degrees of Master of Veterinary Science and Doctor of Veterinary Science. The Statute and Regulations respecting these Degrees are as follows:

UNIVERSITY OF TORONTO

Statute and Regulations respecting the Degrees of Master of Veterinary Science (M.V.Sc.) and Doctor of Veterinary Science (D.V.Sc.)

That the regulations governing the degrees of Master of Veterinary Science and Doctor of Veterinary Science be as follows:

1. The regulations governing these degrees shall be administered by a conjoint committee, consisting of two representatives of the School of Graduate Studies of the University, appointed by the President of the University, and two representatives of the Ontario Veterinary College, elected by the Faculty of the College. The Dean of the School of Graduate Studies of the University of Toronto shall be ex officio member and chairman of the Committee.

2. Candidates to be eligible for either degree must have received the degree of Bachelor of Veterinary Science (B.V.Sc.) of the University of Toronto or must possess equivalent qualifications.

3. Application for registration as a candidate for either degree must be made to the Secretary of the School of Graduate Studies not later than the first

day of October in any year and the application must be accompanied by official statements of the applicant's degrees, of the courses pursued as an undergraduate and his standing therein, and of the course of study or investigation he wishes to pursue. Registration in the School of Graduate Studies must be repeated in each year of the course.

4. A candidate for either degree must satisfactorily undergo examination in the prescribed subjects of his course and must submit a thesis which shall be an original contribution to knowledge. Three printed or typewritten copies of his thesis must be deposited with the Secretary of the School of Graduate Studies not later than the first day of May if the degree is expected to be conferred at the regular June Convocation.

5. The Conjoint Committee and representatives of the departments of the University of Toronto and of the Ontario Veterinary College concerned in the instruction of each candidate shall constitute a committee for the supervision of the candidate's work and for the conduct of the required examinations.

CURRICULUM

Master of Veterinary Science (M.V.Sc.)

A candidate for this degree will be required to spend not less than two academic years in advanced study and research. He must pursue a special course of advanced study extending over one full academic year in a department or departments of the University of Toronto and a second year either at the University of Toronto or at some other institution approved by the Conjoint Committee. He must prepare and submit a thesis on the terms indicated above and must take the required examinations.

Doctor of Veterinary Science (D.V.Sc.)

This degree is intended as a mark of proficiency in original investigation or of professional eminence and will be conferred not less than three years after graduation. The candidate must prepare and submit a thesis on the terms indicated above and must present himself for examination as may be required.

The courses leading to this degree may be pursued along either of two lines:

(a) By a special study and research extending over a period of three years, the first year to be spent at the University of Toronto, the remaining two either at the University of Toronto or at some other institution approved by the Conjoint Committee;

(b) By study and independent research conducted in connection with professional practice or otherwise in the field of Veterinary Science. In such cases if the thesis is accepted, the Conjoint Committee may recommend the award of the degree without formal examination, and registration in the School of Graduate Studies will be required only for the year in which it is expected that the degree will be conferred.

RESEARCH AND INVESTIGATIONAL WORK

While the College is regarded essentially as an educational institution for the training of candidates for the profession, nevertheless, a great deal of special research and investigational work has to be undertaken. Certain members of the staff have, in addition to their regular class lectures, laboratory and other instructional work, been required to devote much of their time to routine work, and also to special researches, in so far as their other duties and the available facilities will permit. The staff has thus been kept busily engaged throughout the year. It is unfortunate that some phases of research work have remained in abeyance owing to the fact that to be properly conducted they required a great deal more time and attention than the regular teaching staff had at their disposal. The present staff, and the available facilities, should be considerably augmented so as to properly cope with the increased demands for special investigational work. It is a field of service which offers immense possibilities, and should prove of lasting benefit to the live stock industry and bring additional credit to the Department. During the past year a consistent effort has been made to deal with the different problems presented in as efficient and effective a manner as possible. Several projects have received special attention and the progress made, with the results achieved, are embodied in the appended reports of the departments concerned.

EXTENSION SERVICE

The purpose of this service is to provide laboratory facilities and other assistance of a definite character to meet the needs of those requiring same. During the year an increasing number of specimens were received for laboratory examination. The increase was particularly noticeable as regards poultry diseases, including blood tests for pullorum disease, parasitic diseases of sheep and swine, diseases of fur-bearing animals, blood tests for infectious abortion in cattle. Owing to the wider publicity being given to the value of the agglutination test for the diagnosis of infectious abortion a greater desire is being manifested by cattle owners to have their cattle blood-tested with the view of establishing abortion-free herds. This has entailed a great deal of personal contact and correspondence with owners and veterinarians. It would appear that sooner or later more definite regulations may be justified to combat this live stock problem. Even at the present time there is a considerable need for more direct action being taken in regard to this disease. This need could be largely satisfied by the appointment of a number of trained field veterinarians to co-operate with owners and practising veterinarians in establishing abortion-free herds.

There is still a perceptible demand from owners and veterinarians to be supplied with vaccines for the treatment of abortion-affected herds. We have, however, deemed it prudent only to supply the killed culture vaccine for this purpose, realizing that opinions for or against the use of abortion vaccines may be supported. The same may also be said as regards the promiscuous blood testing of cattle without definite regulations dealing with the reactors. At any rate, the number of blood tests being made are serving as an index in determining the extent of the disease as approximating at least twenty-five per cent. in actually affected herds. Unless more definite legislative control measures are provided and enforced a wider dissemination of the disease is likely.

During the past year a total of five thousand three hundred (5,300) agglutination tests were made for abortion in cattle, and those concerned were furnished with laboratory reports of the results of the test for their guidance. The occurrence of hemorrhagic septicemia in cattle is causing considerable concern. The disease occurs chiefly during the fall months on premises where feeding cattle are introduced after being shipped from the Western Provinces. The losses from this disease could be greatly reduced if consignments of feeding cattle were vaccinated against hemorrhagic septicemia before leaving their original point of shipment. In all cases where specimens are sent for laboratory examination a detailed report of the findings is promptly sent to the one concerned. That this service is highly regarded is shown by many acknowledgements of appreciation, which have been a great source of encouragement for the further development of this useful and valuable service.

This laboratory service also provides much valuable clinical material for instructional purposes and tends to create in students the background for more intensive methods of laboratory examination and scientific diagnosis. It also creates a greater desire and incentive for research work and frequently provides the opportunity. The number of specimens received and examined are specifically indicated under their respective departmental headings in the appended reports.

Report of Visit to Veterinary Colleges and Animal Diseases Research Institutes in Scotland and England during the Months of July and August, 1930

Glasgow Veterinary College.—This institution is situated at 83 Buccleuch Street, Glasgow. The Principal at the present time is Alfred W. Whitehouse, who graduated from the Ontario Veterinary College during the year 1894. From current reports this institution is apparently suffering from a lack of financial support. This is regrettable, as this College has served a useful purpose. The Principal and his staff are deserving of every encouragement in their self-sacrificing efforts to continue their labours under discouraging handicaps. Generally speaking, the college building should be replaced along modern lines and more adequately equipped.

Royal (Dick) Veterinary College, Edinburgh.—This institution is situated in Summerhall Square, Edinburgh, and is under the direction of Principal O. Charnock Bradley. The building is fully modern and suitably equipped throughout. The class rooms are spacious and comfortable. All of the laboratories are well equipped. The museum contains a large collection of valuable specimens. There is also a large clinic and practice conducted by the College which affords plenty of material for clinical and practical instruction. Without doubt, the Royal (Dick) Veterinary College is suitably located and well equipped throughout, supported by a staff of competent instructors. This College is suitably endowed through the Dick Endowment Fund, by Government grants, by grants from the Agricultural Society of Scotland, and by the Council of the City of Edinburgh.

Moredun Animal Diseases Research Institute.—The institute is located at Moredun, near Edinburgh, and is supported by grants from the Agricultural Society of Scotland and also endowments and public subscriptions from leading agriculturists throughout Scotland. The main buildings contain a number of well-equipped laboratories suitable for research purposes. It also has twenty-five acres of land, suitably fenced and subdivided for the keeping of animals for research purposes. The Institute is under the direction of Dr. J. Russell Greig and he is ably supported by a number of assistants specializing in research into different diseases of animals, more particularly relating to diseases of cattle, horses and sheep, and to diseases of poultry. In addition to conducting investigations and research into animal diseases it supplies its subscribers with vaccine and sera for the prevention and treatment of diseases such as braxy in sheep. As a research institute it is suitably located with proper accommodation and efficiently staffed. Its work is carried on along similar lines to that of the Ontario Veterinary College with regard to investigation and research work but naturally on a more extensive scale with a much larger staff and ample funds to prosecute its work.

Royal Veterinary College, London, England.—This institution is located at Camden Town, London, and is under the direction of Principal Frederick Hobday. The buildings are old and in a poor state of repair. At the present time a movement is on foot to erect a new college at a cost of approximately one million, two hundred and fifty thousand dollars. Lord Harewood is taking a deep interest in securing this fund, which is to be provided by the Government and by private subscriptions. While the college buildings are old, at the same time the institution is fairly well equipped in some departments and conducts a very large clinic and general practice. It is under capable direction and has a large staff of competent instructors. This institution has always had a good reputation but has been hampered for some years through the buildings becoming somewhat obsolete and out of repair. Great interest is being manifested in the affairs of the Royal Veterinary College at London by prominent men who feel that veterinary science and veterinary education is entitled to better recognition than it has been receiving from departmental sources, and some of the newspapers, including the London *Times*, have been foremost in publicly espousing more adequate financial support for this institution. As a step towards improvement there has recently been built and equipped adjacent to the college an entirely new building for laboratory and research purposes with a competent additional staff so as to enable the instructors at the Veterinary College to devote more of their time to educational work without being unduly burdened and troubled by increasing routine duties. Plans are being prepared for the new college building, and when the new buildings are completed this institution should be in a more favourable position.

Veterinary Laboratory of the Ministry of Agriculture and Fisheries at Weybridge, Surrey.—This is a new laboratory maintained by the Ministry of Agriculture and Fisheries of Great Britain at Haw, Weybridge, about 35 miles from London. The laboratory is under the direction of Dr. W. H. Andrews. This institution has a large staff of competent men who devote their entire time and attention to investigational and research work, more particularly as regards contagious diseases scheduled under The Animal Diseases Act. The diseases at the present time receiving most attention are hog cholera, swine plague, swine erysipelas, foot and mouth disease, rabies, hemorrhagic septicemia, sheep scab, braxy of sheep, parasitic infestations, and specific diseases affecting poultry. The laboratory also manufactures and distributes vaccines and sera, more especially as regards the treatment of hog cholera and infectious abortion in cattle. The institute itself is splendidly housed in a magnificent building of modern construction throughout with every sanitary convenience and adequately equipped throughout. Attached to the institute is approximately 100 acres of land, fenced and subdivided for the suitable maintenance of animals for investigational and research purposes. The institute is maintained and adequately supported by Government and apparently spares no pains or expense in maintaining plenty of help and providing suitable facilities and equipment for the satisfactory carrying on of the work. In comparison with Ontario we have nothing here to compare with this institute, but at the same time it is only fair to state that it is maintained and provided for by the Government of Great Britain and works in close co-operation with the office of the Ministry of Agriculture and Fisheries under the direction of Sir Ralph Jackson, Veterinary Inspector in charge of the Department of Veterinary Diseases of the Ministry of Agriculture and Fisheries.

School of Veterinary Medicine, University of Liverpool.—This institution is located adjacent to the University of Liverpool. It is under the direction of Professor J. Share-Jones and is accommodated in several buildings facing on Bedford Street. The College is well equipped in most departments and appears to maintain a close connection with the University. As a result students receive instruction from members of the University staff in a number of the science subjects. The College maintains a practice and clinic sufficient for educational purposes, but does not engage extensively in general researches so that the staff is permitted to devote most of their time and attention to selected researches and educational work. This plan appears to be quite adaptable in that it enables the staff to concentrate more on routine instructional work with the students. Students attending this institution have the benefit of contact with the School of Tropical Medicine, enabling them to become more familiar with diseases occurring in tropical countries which still look to Great Britain as a source of supply for medical and veterinary skill.

Conclusions.—In comparing the status of veterinary education and research in Great Britain and here, I am pleased to state that we compare quite favourably with the best institutions elsewhere, with the exception that the Ontario Veterinary College has to make use of the available staff both for educational, clinical, investigational and research work, while in Great Britain the Colleges are able to concentrate more on the educational work and to have investigational and research work handled more largely by the staffs of the different research institutes. This means that the burden is lighter on the individual members of the staff and those concerned are able to concentrate more on definite and specific problems without interruption, such as takes place where the same individual has to attend to both teaching and routine work without abundance of help. After having visited the Royal (Dick) Veterinary College at Edinburgh, and the Moredun Research Institute, I am of the opinion that the Department should, at as early a date as convenient, provide a suitable acreage of land for the maintenance of animals for investigational and research purposes, and also provide a supplementary staff to attend to the increasing routine work, so as to more successfully handle the increasing demands made upon the staff at the present time and to enable the staff to devote more individual attention to the specific duties which they are required to perform.

All of which is respectfully submitted.

C. D. McGilvray,
Principal.

Guelph, Ontario,
October 31st, 1930.

CLINICAL DEPARTMENT

The work of this department embraces the applied branches of veterinary medicine and surgery. All animals brought to the clinics are carefully examined after which treatment is prescribed and operations performed as may be required. The cases are carefully selected and made use of to impart instruction to the students by means of lectures and special demonstrations. A list of the clinical cases relating to the different classes of animals are recorded under their respective headings, and a number of interesting conditions are embodied as special articles in the report.

EQUINE CLINICS

Number of Animals	Nature of Case	Remarks
25	Dental Cases	Dental treatment
2	Fractured Molar	Extraction
3	Elongated Molar	Molar cutting operation
1	Loose Molar	Extraction
2	Nasal Gleet and Sinusitis	Trephining operation
3	Fistulous Withers	Radical operation
4	Serous Effusion (Withers)	Surgical treatment
1	Lateral Curvature (Wryneck)	
8	Laryngeal Hemiplegia	Surgical operation
2	Pulmonary Emphysema	Demonstration cases
1	Navicular Disease	Counter irritation
2	Overgrown Hoofs	Paring and balancing
3	Spavin	Actual cautery
2	Thoroughpin	Counter irritation
5	Ringbone	Actual cautery
1	Quittor	Operative treatment
1	Tumor of the Sheath	Surgical “
2	Coffin-joint Lameness	Counter irritation
1	Carpitis	Actual cautery
1	Fibroma	Surgical removal
2	Tarsitis	Actual cautery
1	Volar Flexion	Tenotomy operation
2	Tendon Lameness	Counter irritation
2	Side-bone	Actual cautery
2	Coronitis	Counter irritation
4	Sesamoiditis	“ “
1	Quarter Crack	Surgical treatment
1	Rupture of the Peroneus Tertius	
2	Calk Wound	“ “
1	Shoe Boil	“ “
1	Shoulder Lameness	Counter irritation
1	Rupture of the Deep Flexor	“ “
1	Lameness (Faulty Shoeing)	Correct shoeing
4	Luxation of Patella	Counter irritation
5	Castration	Surgical operation
1	Umbilical Hernia	“ “
1	Fistula of the Hip	“ “
2	Check Ligament Lameness	Counter irritation
4	Abscess	Surgical treatment
1	Entropion	Surgical operation
4	Infected Foot	Antiseptic treatment
1	Gonitis	Counter irritation
1	Exostosis of the Os Pedis	
1	Tumor of the Fetlock	Surgical removal
1	Osteoma of the Inferior Mandible	“ “
3	Constipation Colic	Medicinal treatment
1	Gastric Engorgement	Stomach lavage
4	Gastro-intestinal Colic	Medical treatment
3	Diarrhea	“ “
9	Periodic Ophthalmia	“ “
1	Chronic Gastro-enteritis	“ “
1	Inappetance	“ “

EQUINE CLINICS—*Continued*

Number of Animals	Nature of Case	Remarks
1	Pulmonary Congestion	Medicinal treatment
1	Purpura Hemorrhagica	“ “
1	Tetanus	“ “
1	Nymphomania	Oophorectomy
2	Uterine Infection	Antiseptic irrigation
2	Navel Ill	Medicinal treatment
2	Umbilical Infection	Antiseptic “
4	Prevention of Navel Ill	Protective inoculation
4	Thrush	Antiseptic treatment
1	Canker of the Foot	Surgical “
20	Wounds	Antiseptic “
	Demonstrations of Restraint	Work done by students
	Examinations for Soundness	“ “
	Clinical Examinations	“ “
	Administration of Medicines	“ “
	Local and Regional Anaesthesia	“ “
	Point and Line Firing	“ “
	Inguinal Exploration	“ “
	Demonstrations of Bandaging	“ “
	“ Surgical Landmarks	“ “
	“ Tenotomies	“ “
	“ Neurectomies	“ “
	Post-mortem Technique	“ “

CATTLE CLINICS

Number of Animals	Nature of Case	Remarks
70	Sterility	Manual and antiseptic treatment.
5	Endometritis	Irrigation and antiseptic treatment
3	Acute Metritis	Antiseptic irrigation and medicinal treatment
7	Vaginitis	Antiseptic treatment
1	Mummification of Fetus	Artificial abortion
3 herds	Sterility—21 examined	Consultation advice
1	Vaginal Tumor	Surgical removal
1	Vaginal Adhesions	Surgical dilation
5	Dystokia	Manual handling
7	Pregnancy Diagnosis	1 negative; 6 positive
4	Retained Placenta	Manual and antiseptic treatment
2	Artificial Insemination	Surgical procedure
1	White Heifer Disease	Demonstration case
4	Mammitis	Medicinal treatment
2 herds	Infectious Mammitis	Sanitary measures established
1	Oedema of the Udder	Medicinal and local treatment
3	Tough Milkers	Surgical operation
3	Teat Tumor	“ “
1	Occlusion of Teat Canal	“ “
2	Fistula of the Teat	“ “
1	Necrotic Ulcer of Teat Orifice	Antiseptic treatment
7	Supernumerary Teats	Surgical removal
2	Parturient Paresis	Calcium injection treatment
2	Naval Infection	Antiseptic treatment
2	Calf Pneumonia	Medicinal “
5	Calf Scours	“ “
1 herd	“ “	Consultation advice
3	Impotency	Medicinal treatment
3	Examination of Seminal Fluid	Microscopic
2	Osteomalacia	Medicinal treatment

CATTLE CLINICS—*Continued*

Number of Animals	Nature of Case	Remarks
1	Tumor of the Ear	Surgical removal
2	Warts of the Ear	“ “
1	Injury to Inferior Mandible	Antiseptic application
1	Abcess of Tarsal Joint	Surgical treatment
1	Pharyngeal Abscess	“ “
1	Abscess of the Hip	“ “
2	Actinomycotic Abscess	“ “
2	Actinomycosis of the Tongue	Medicinal “
1	Actinomycosis of the Mandible	“ “
1	Actinomycosis of the Nasal Passage	“ “
5	Urethral Calculi	Surgical “
1	Sternal Bruise	Medicinal application
1	Infection of the Foot	Antiseptic application
2	Foul in Foot	“ “
1	Lameness due to an Injured Toe	“ “
1	Hygroma	Surgical treatment
2	Impaction of the Omasum	Medicinal “
1	Eczema	“ “
1	Urticaria	“ “
2	Insect Stings	“ application
2	Lead Poisoning	
1	Cryptorchid	Castration through laparotomy
1	Gaseous Indigestion	Medicinal treatment
2	Dyspepsia	“ “
2	Gastro-intestinal stasis	“ “
3	Chronic Diarrhea	“ “
1	Hemorrhagic Diarrhea	“ “
1	Indigestion	“ “
1	Spinal Disease	“ “
1	Johne's Disease	
1 herd	Hemorrhagic Septicemia	Biological treatment
	Demonstrations of Restraint	Work done by students
	“ Administration of Medicine	“ “
	“ Caudal Anaesthesia	
	“ Intradermal Tuberculin Injections	
	“ Sterility Examinations	
	“ Bleeding for Agglutination Test	
5	Post-mortem Examination	Hemorrhagic Septicemia
1	“ “	Peritonitis from Umbilical Infection
2	“ “	Calf Pneumonia
1	“ “	Osteomalacia
1	“ “	Johne's Disease
1	“ “	Spinal “
1	“ “	White Heifer Disease
2	“ “	Calf Scours

SHEEP CLINICS

2	Dystokia	Manual handling
2	Prolapse of the Vagina	Surgical treatment
1	Pulmonary Congestion	Medicinal “
1 Flock	Foul in the Foot	Antiseptic applications
1	Canker of the Foot	“ and surgical treatment
1	Abscess	Surgical treatment
1	Lip Ulceration	Antiseptic treatment
1	Sepsis after Docking	Surgical and antiseptic treatment
1	Tumor of the Udder	Surgical treatment
1	Bloating	Medicinal “
1	Coronary Infection	Antiseptic “
1	Diarrhea	Medicinal “
1	Keratitis and Conjunctivitis	“ “

SHEEP CLINICS—*Continued*

Number of Animals	Nature of Case	Remarks
3	Caudal Amputation	Surgical operation
2	Castration	Burdizzo method
1	Nodular Disease of Rectum	Medicinal treatment
2	Post-mortem Examination	Parasitism
1	“ “	Gastroenteritis
5	“ “	Hemorrhagic Septicemia
1	“ “	Pneumonia
1	“ “	Fatty Degeneration of Liver
1	“ “	Bloat

SWINE CLINICS

2	Cryptorchid	Surgical operation
7	Scrotal Hernia	“ “
1	Inguinal “	“ “
1	Scirrhous Cord	“ “
1	Hermaphrodism	“ “
1	Impotency	Medicinal treatment
2	Mammitis	“ “
2	Deficiency disease	“ “
1	Urticaria	“ “
2 Litters	Scours	“ “
4	Post-mortem Examination	Pneumonia
2	“ “	Enteritis
1	“ “	Ascariasis
3	“ “	Anemia
1	“ “	Deficiency disease
1	“ “	Valvular heart disease
3	“ “	Hemorrhagic Septicemia
3	“ “	Tuberculosis

SMALL ANIMAL CLINICS—DOGS

51	Ovariectomy	Surgical operation
9	Caudal Amputation	“ “
5	Castration	“ “
1	Gastrohysterectomy	“ “
2	Dystokia	Caesarian section
1	Amputation of the Leg	Surgical operation
2	Tumors	Surgical excision
3	Pharyngeal Abscess	“ treatment
1	Parotid Abscess	“ “
3	Wound Abscess	“ “
1	Cryptorchid	“ operation
2	Fractured Leg	“ treatment
1	Fractured Skull	
1	Telescoped Bowel	Surgical treatment
1	Prolapse of the Rectum	“ “
3	Sarcoptic Mange	Parasiticides
4	Demodectic Mange	“
3	Tapeworm Infestation	Taeniacides
2	Ascarid “	Vermicides
3	Gastroenteritis	Medicinal treatment
1	Pruritis and Alopecia	“ “
5	Gastritis	“ “
1	Atrophy of Spinatus Muscle	Counter irritation
2	Conjunctivitis	Medicinal treatment
3	Corneal Opacity	“ “
1	Corneal Ulcer	“ “
2	Keratitis	“ “
1	Parotiditis	“ “

Small Animal Clinics—Dogs—*Continued*

Number of Animals	Nature of Case	Remarks
2	Infected ear	Antiseptic treatment
1	Cerebro Spinal Meningitis	Medicinal "
2	Running Fits	" "
2	Malnutrition	" "
2	Paraplegia	" "
1	Posterior Femoral Paralysis	
2	Chorea	Medicinal treatment
1	Shoulder Lameness	Counter irritation
1	Hip Lameness	
4	Lameness	Counter irritation
2	Constipation	Medicinal treatment
2	Dyspepsia	" "
3	Wound	Antiseptic treatment
1	Injured Prepuce	" "
1	Abscess of Anal Pouches	" "
5	Distemper	Medicinal "
8	Humanely destroyed	
	Demonstrations of Breed Characteristics and Conformation.	

CATS

15	Ovariectomy	Surgical operation
9	Castration	" "
1	Injured Foot	" treatment
1	Abscess of Anal Pouches	Antiseptic "
1	Abscess	Surgical "
1	Hernia of Omentum	" "
3	Otodectic Mange	Parasiticides
2	Sarcoptic Mange	"
1	Foreign Body in the Mouth	Surgical removal
1	Eczema	Medicinal treatment
1	Alopecia	" "
1	Dystokia	Manual handling
1	Fractured Pelvis	
1	Stomatitis and Glossal Ulcer	Medicinal treatment
6	Humanely destroyed	

MISCELLANEOUS

1	Chinchilla Rabbit—Paraplegia	Medicinal treatment
2	Black Fox—Fractured Legs	Amputation
1	" " Orchitis	Castration
1	Raccoon—Convulsions	Sedatives
2	Hens—Crop Impaction	Surgical operation
1	Rooster—Caudal Tumor	" "

Note.—In reference to the sheep and swine clinics in practically all instances where post-mortem examinations were held, they were cases representative of conditions affecting a flock of sheep or a herd of swine as a whole and in which considerable losses had been experienced.

HEMORRHAGIC SEPTICEMIA IN CATTLE

By R. A. McIntosh, M.D.V., B.V.Sc.

Veterinarians and livestock owners are well aware of the prevalency of this disease. The conditions under which it occurs and its diagnosis are well known. The means which may be taken to prevent its occurrence and the handling of outbreaks of it are fairly well understood, but because of the fact that we at this institution frequently receive complaints and inquiries regarding violent reactions and in some instances losses of animals following the administration of some protective biological agent, it is felt that an outline of the proper measures of control would be of value in this report. The indiscriminate use of some biological vaccination preparations without thoughtful consideration of the condition of the animal to which it is to be administered is fraught with danger. This is particularly true when the vaccination of animals is undertaken in a herd at the time of an outbreak of the disease.

At the present time there are three biological preparations used as protective inoculations against the disease. These are hemorrhagic septicemia aggressin, hemorrhagic septicemia bacterin and anti-hemorrhagic septicemia serum. The intelligent use of any one of these agents requires a clear conception of what they are, how they are obtained, how they protect or immunize an animal, and when they should be used.

The term aggressin is applied to the products of bacterial growth in the tissues of an infected animal without which the organism cannot produce disease. It is found in the inflammatory exudates. The hemorrhagic septicemia aggressin is obtained from animals which have been artificially inoculated and have died from the disease. The inflammatory exudates are extracted from diseased tissue and body cavities. It is then made sterile by Berkefeld filtration and the addition of a preservative. When injected into an animal as an immunizing agent it stimulates the production of anti-aggressins and arouses other protective faculties of the body, thus creating an active immunity. It can at once be seen, however, that such a preparation administered to an amimal coming down with the disease would tend to hasten the occurrence of the condition rather than to be protective. The aggressin should never be used as a curative but only as an immunizing agent in healthy non-exposed animals.

The hemorrhagic septicemia bacterin is a suspension of killed cultures from a virulent strain of the organism which causes the disease. The administration of this preparation produces an active immunity and susceptible animals can be protected by its use. Like the aggressin it should not be used on animals that are fevered or manifesting symptoms of the disease. It is probably less dangerous than the aggressin in this respect and is even claimed to be curative in small, repeated doses. The advisability of using it in the treatment of the disease is questionable for on occasions it aggravates the condition and severe reactions follow.

The anti-serum is derived from the blood of animals which have been hyperimmunized with cultures of the hemorrhagic septicemia organism. It is a passive immunizing agent, that is, the immunity is conferred by the administration of the preparation. An animal injected with the anti-sera is almost immediately protected and it also possesses distinct curative properties. It is the only safe biological agent to administer in the actual treatment of the disease. The reason it is curative lies in the fact that the serum, having been obtained from animals hyperimmunized, contains antibodies and other protective qualities which, when introduced into the body of an affected animal, at once neutralize and offset the disease-producing powers of the organism.

The disease occurs most frequently in the fall and spring in changeable weather. Animals subjected to shipping are apparently most susceptible, for many outbreaks follow the shipment of cattle from one place to another. Thus feeder cattle purchased in the stock yards and taken to some farm to fatten quite often are infected, take sick and may infect a considerable number of the stock owner's young cattle of his own raising. In some districts and on some farms the infection appears to be indigenous and spontaneous outbreaks occur. These peculiarities of the disease are significant and indicate the times at which immunization should be established. Susceptible cattle should be vaccinated in the early fall before changeable weather sets in, and, in the event of them being shipped, two weeks prior to transportation. For this purpose the aggressin or the bacterin may be used. Either of these agents stimulate the production of an active immunity in about ten days or two weeks.

In handling outbreaks of the disease the affected animals should be isolated. The stabling accommodation on some farms is not sufficient to provide complete isolation in many instances, but one should take every means possible to prevent the younger members of the herd in particular from being exposed. They should be vaccinated at once and preferably with the anti-serum, for it gives immediate protection. It may also be used on the affected animals for its curative effect. Many use the bacterin in an outbreak of the disease, at which times it quite often proves to be effectual in protecting the animals and halting the progress of the disease, but on occasions violent reactions and even deaths occur following its use. The reactions observed simulate anaphylaxis and it may be that the animals in which the reactions occur are sensitized by the presence of the infection in their bodies and they are just commencing to come down with the disease. Before injecting any animal with either the aggressin or the bacterin where an outbreak of the disease exists, it would be advisable to take their temperatures and carefully examine them to determine whether there are any indications of them having contracted the disease or not. Furthermore, it is also advisable to enquire as to whether they have been injected previously or not. Accordingly it would be much safer to use the anti-serum during the course of the disease, and later on after the acute manifestations of the outbreak had disappeared to use an active immunizing agent for permanent effect.

Hygienic and sanitary measures should be established and the disinfection of the premises carried out. Latterly it has been claimed that febrile diseases of this nature are greatly favoured by an acidosis condition, and that the free use of some alkaline agent such as sodium bicarbonate in the food and drinking water provided for the animals is of great value, both as a curative agent and for the maintenance of their powers of resistance.

Hemorrhagic Septicemia Complicated with Impaction of the Omasum

Clinic No. 38, November 15th, 1930—The history of this case is as follows: There were twenty-five head of cattle in the herd, nine of which were adults, the remainder all young cattle. Two western steers had been bought out of a shipment and placed in the herd. As a whole the cattle were in fair flesh and for the last three weeks had been on rape pasturage. It was noticed that both of the western steers had a cough and did not thrive very well, but both of them recovered. Four other animals took sick and died over a period of about two weeks. The animal presented in this clinic was nine months old and at first it was noticed coughing and discharging from the nostrils. It was kept in for a few days but would not eat, was reluctant about moving and grunted when breathing. It died the morning of this examination.

Post-mortem Examination.—The carcass presented an unthrifty appearance, although it was not emaciated. Rigor mortis was well established. When skinned the peripheral circulation in the subcutis appeared normal. On opening the abdomen the intestinal tract showed slight evidence of enteritis. The rumen was apparently normal. No abnormality or degenerative changes were seen in the liver or kidneys. The omasum, however, was very hard to feel and when opened found to be tightly impacted with dried ingesta. In the thoracic viscera one lobe of the right lung was in a pneumonic condition. Pus could be squeezed from the bronchioles of its cut surface. Swabs from the diseased lung subjected to bacteriological staining and culture revealed the presence of the bipolar organism of hemorrhagic septicemia.

In summing up the history of these cases and the information gained through the autopsy it was felt that the cause of the losses in this herd were primarily due to hemorrhagic septicemia brought in by the purchase of the two western cattle. The animal on which the post-mortem was held, however, apparently died from the omasal impaction which no doubt followed the febrile condition produced by the pneumonic lung. The lung lesion was not sufficiently extensive to cause death but unquestionably would cause fever and debility.

The owner was advised to have the remaining members of the herd carefully examined and vaccinated against hemorrhagic septicemia. No further report was received from him.

Mummification of the Fetus

When a fetus dies during intrauterine life, in the vast majority of cases it is promptly expelled. On some occasions, however, it is retained within the uterus where it may undergo maceration and putrid decomposition or possibly mummification. By the term mummification of the fetus is indicated a condition in which the fetus dies and the fetal fluids, both those contained in the membranes and those which form a part of the fetal tissue, are gradually absorbed until nothing is left but the hard, dry, blackened fetal body. The skeletal structures, the skin and possibly remnants of the fetal appendages may be found, but they are dehydrated. The uterus contracts firmly down on the mass where it may be palpated as a firm, unyielding body. In order that mummification occurs it is essential that the uterus was sterile when the death of the fetus took place, and also that the cervical seal remained intact and impervious, for if the uterus were infected or the cervix open the fetal body would soon become the prey of saprophytic bacteria. As an example the following case is reported.

Clinic No. 125, January 16, 1930.—The subject presented was a Jersey cow three years old. She had given birth to her first calf on November 23rd, 1928, over a year previous to this examination. She was bred about three months after the birth of her first calf and apparently conceived with that service—oestrum ceased and other signs of pregnancy became manifest, but about the fifth or sixth month of the gestation period the cumulative signs of pregnancy ceased. She continued to milk well and at no time was there any indication of indisposal or sickness. Ultimately she went past the parturition time without calving, and at about eleven months after having apparently conceived she was submitted to the clinic for examination. When examined the cow was in good state of nutrition and appeared normal in every way. The history of these cases, however, is always significant and accordingly a vaginal and rectal examination was made. The vagina was normal and the cervix tightly constricted with its seal well formed and intact. By rectal manipulation a firm body could be felt in the right cornua of the uterus. A well formed corpus luteum on the right ovary was palpated. These findings substantiated the thought that mummification of the fetus had occurred.

It was decided to artificially abort the mummy. The procedure in accomplishing this is outlined as follows: The first day the corpus luteum of pregnancy was dislodged from the ovary by rectal manipulation. A catheter was inserted into the cervix and belladonna injected along the course of the cervical canal. The second day some cervical dilation was evident and gauze saturated with belladonna ointment was packed into the canal. The third day more dilation was evident and again the cervix was packed with gauze. On the fourth day considerable cervical dilation had occurred and pelvic relaxation was noted. The cervix was again packed with a gauze plug smeared with belladonna ointment. On the fifth day expulsive efforts and uneasiness were evident. A vaginal examination revealed the fetal mummy forced up into the cervix. It was grasped and by gentle traction removed. The chorionic membrane was intact around the fetal body. Subsequently the uterus was irrigated with a return flow catheter and in a short time reverted to its normal non-gravid state.

In this instance when the fetus was withdrawn from the uterus a considerable amount of dark brown, soft material was found around it outside of the chorionic membrane. It had the appearance of a blood clot from which the fluid had been extracted. The volume of this material would equal the volume of the mummy and there is no doubt but what this had been an extensive uterine hemorrhage into the utero chorionic space. In all probability it was responsible for the separation of the maternal cotyledons and the fetal chorionic tufts and subsequently the death of the fetus. Uterine hemorrhages during pregnancy are seldom recognized but they may be more common than what is known.

The size of the fetal mummy indicated that it had perished at about the fifth month of the gestation period. The body was opened and smears taken for bacteriological culture but they proved to be sterile. To the dam the agglutination test for Bang's disease was applied but it also proved negative. This animal was discharged from the college hospital on January 31st, 1930, and the owner advised to have her bred on the second occurrence of oestrum. A report received from him on September 9th, 1930, stated that she conceived with the one service and that she was expected to calve early in December, 1930.

In producing artificial abortion the dislodgement of the corpus luteum is most essential. It may not be necessary to pack the cervix as was done in this case, but it is felt that it facilitates dilation and in any event these cases should be kept under daily observation to note the progress of cervical dilation and to assist the removal of the fetal body when expulsive efforts are manifested.

URINARY LITHIASIS IN CATTLE

By R. A. McIntosh, M.D.V., B.V.Sc.

Veterinary literature on the subject of renal calculi, either as to their etiological factors or their clinical manifestations, is both rather meagre and vague. Because of the fact that a considerable number of cases have come under the observation of the writer during the last few years, he feels that certain characteristic features noticed will be of value to the profession.

Nephrolithiasis occurs in two forms, one which may be spoken of as the formation of non-inflammatory calculi, the other as the result of or coincident with certain inflammatory lesions within the renal organs. The urine holds a considerable variety of salts in solution. The laws which govern this solution and the conditions which lead to a precipitation of the salts are, however, but imperfectly understood in either form of its occurrence. The precipitation of solids depends only in part upon their concentration in the urine, for numerous observations have shown that the amount and character of urinary sediments bears no definite relationship to the concentration of these various substances in the urine. Certain constituents like uric acid and the urates are more apt to be precipitated from acid urine, while others like calcium phosphate and oxalate are more apt to be precipitated from alkaline urine.

It should be noted that many salts are present in the urine in a concentration far greater than can be attained in a simple aqueous solution of these same salts. This is true of uric acid, the urates and calcium oxalate. Nor is this high concentration in the urine a simple supersaturation. When crystals of salt are added to a supersaturated solution the excess of salt is rapidly precipitated. If, on the other hand, crystals of uric acid be added to urine the precipitation of uric acid takes place slowly and less completely than if the crystals were added to a supersaturated solution of uric acid in water. Even after many hours the amount of uric acid still dissolved in the urine may be several times the amount that pure water will hold in solution.

Apparently, therefore, many salts of the urine are held in solution by other urinary constituents. According to Lichwitz, colloidal substances play the most important role in maintaining this solution. When urinary salts are separated from these colloidal substances by dialysis and the dialyzate is concentrated to the original volume of the urine used, a sediment of uric acid, calcium oxalate and calcium phosphate is formed. Clear alkaline urines become cloudy only after hours, whereas if shaken with ether so as to remove the colloids soluble in ether, a precipitation of phosphates may occur immediately. Changes in the urinary colloid may also account for the fact that a variety of salts are frequently precipitated at one time, as well as for the observation that a patient who at one time shows numerous calcium oxalate crystals in fresh urine may at another time show only phosphate precipitated.

The composition of calculi varies considerably depending upon that part of the renal tract in which they are formed and also, to some extent, the species of animal. Calculi found in the pelvis of the kidney are usually composed chiefly of calcium oxalate. Less commonly such stones are made up of uric acid, urates, cystin, xanthin and other ingredients. In the bladder, where alkaline decomposition of the urine frequently follows an obstruction in the lower urinary tract, stones containing considerable calcium carbonate and basic phosphates are common, for these salts are rapidly precipitated from an alkaline urine. If the bladder urine remains acid, uric acid stones may occur. In addition to these crystalline substances all urinary calculi contain a framework composed of protein matter. If the mineral portion of a stone be dissolved, this organic residue can be stained with eosin and it is seen to extend through all portions of the stone.

The nucleus of a urinary calculus may be composed of foreign matter. Various foreign substances when introduced and left in the bladder have become centres of stone formation. In the centre of the stone may be found parasites, clumps of bacteria, an old blood clot or a shred of tissue. More commonly, however, the nucleus of the stone contains no such foreign material but appears, like the stone itself, to be formed by a precipitate composed of mineral and colloidal elements. The development of a calculus is greatly favoured by urinary stasis, for it is evident that under ordinary circumstances nuclei while still small will be readily evacuated in the urine, and no opportunity is given for the gradual growth of a calculus.

It has been previously indicated that there are two forms of calculi: those occurring as a result of inflammatory lesions in the renal organs, the others of non-inflammatory origin. The former are occasionally seen in cases of pyelonephritis in cattle. These result from the decomposition of the urine from the action of ammoniac fermentation during which process phosphoric ammonia magnesium and uric acid ammonia are thrown down and these by uniting form calculi. The non-inflammatory calculi follow the saturation of the urine with stone-forming salts. If these crystals are not removed they will develop crystallization points upon which more stone forming salts will be deposited, even from urine which has become normal. In this way shell calculi are formed. Shell calculi are those upon which layer after layer of stone-forming salts have been deposited in concentric rings until finally a relatively large calculus is formed. In the writer's experience it has been observed in cattle that the tendency is for the calcareous material to remain in a relatively fine form, much of it being passed with each act or urination. The sediment may be found in the pelvis of the kidney, in the bladder, and in the male animal along the course of the urethra, particularly at the sigmoid flexure of the penis, in the sheath, and invariably particles of it will be found adherent to the preputial tuft of hairs. Clinically one seldom meets with cases of the non-inflammatory form in the female of the bovine species. This is probably explained in the fact that the cow due to her short urethral canal and pose during the act of urination flushes out the bladder more rapidly and completely than does the male.

At the Ontario Agricultural College in Guelph a relatively large herd of beef type animals of the Shorthorn, Angus and Hereford breeds are kept. Each year a number of young male animals are castrated and kept for feeding experiments in baby beef production The College also has an equally large herd of dairy type cattle, but the young males are left entire and for the greater part disposed of for breeding purposes. There is very little difference in the care, management and feeding of the young animals during the calf period except that the beef calves are allowed to suckle their dams while the dairy type calves are pail fed. The water supply and the character of the food provided is much the same.

A considerable number of cases of urinary lithiasis have occurred in the steers of the beef herd. During the past winter five. With one exception those cases have all been in young steers. The exception was in a Shorthorn bull calf about six months old and still nursing. There have never been any cases in the dairy herd. The ages of steers affected range from six to eighteen months. As a rule they are castrated at from four to eight weeks of age before any sexual instinct arises and the penis remains relatively small and undeveloped. The water supplied is quite hard and by chemical analysis contains approximately twenty-seven grains of inorganic salts per gallon. Calcium and magnesium bicarbonate are preponderant. There is also calcium chloride and sulphate to a considerable extent. Their food supply consists of leguminous hay and silage for roughage. Roots, chiefly turnips, are also fed with a grain ration of oats, bran and calf meal. They are usually allowed to suckle their dams during the lactation period. By these methods they are always kept in a high state of nutrition. They do not, however, get very much exercise for they are only allowed out in paddocks for a short time during the day.

It is very difficult to definitely determine the cause of the condition in the animals in which it occurs. Why a precipitation of the stone-forming salts should take place in a few and not in all of them when they are kept under similar management and care can hardly be explained, unless those in which it does occur possess a diathesis for it. There are, however, certain contributary factors which undoubtedly have to do with its occurrence. The character of the water and food supply. The water is heavily laden with lime salts and the food consumed is produced on soil rich in magnesium and calcium. Animals fed on such foods would in all probability excrete a urine saturated with salts of this character. The fact that they are only allowed a limited amount of exercise and stabled in quarters where the temperature is maintained at about the same level also has a bearing on the production of it. Such animals do not drink as much water or micturate as frequently as those which are allowed greater liberty or are required to move from one place to another more. This would tend to increase the density of the urine. The longer the urine is retained in the bladder the greater the tendency is for precipitation to occur. The undeveloped penis, with its small urethral canal and sigmoid flexure lends itself to the retention of calcareous material which may ultimately completely obstruct the urinary passage.

Prior to the complete obstruction of the urethra there is no evidence of ill health or disease except that the presence of stone-forming material may be noticed adherent to the preputial tuft of hairs. The presence of this material indicates that stone-forming salts are being precipitated and carried off with the urine. In these cases of non-inflammatory origin the precipitation apparently takes place within the bladder, for on no occasion has there been found any calcareous material in the kidneys or ureters. As the steer urinates rather slowly only a portion of the precipitate is carried off. Much of it remains in the bladder forming numerous small, round calculi which remain in this form. Occasionally a number of them may become clustered together in a shred of mucous and form a stone as large as a bean, but as a rule they remain independent and small. When obstruction of the urethral canal occurs it is always at the sigmoid flexure of the penis. This is another site that lends itself to the accumulation of the small calculi as they drift down with each act of urination. Ultimately a sufficient number will collect at this point to completely obstruct the urethra. The small stones become more or less cemented together forming a cylindrical shaped calculus. Obstruction causes retention of the urine and finally the bladder becomes enormously distended leading to frequent attempts at urination, renal colic and other manifestations of pain and distress. The animal refuses to eat, bellows at times, and will on occasions lie down and refuse to get up. By manipulation of the penis just posterior to the base of the scrotum one can in some instances definitely locate the seat of the obstruction in it. It will be recognized by its firmness at that point and also its sensitiveness. A rectal examination will reveal a bladder greatly distended with urine extending forward into the abdominal cavity.

The significant features which enable a clinical diagnosis are frequent attempts at urination, the presence of calcareous material on the preputial tuft of hairs and in the sheath, and the distended bladder. In the writer's experience with these cases the obstruction has always been at the sigmoid flexure of the penis. Post-mortem examination usually reveals a considerable amount (from a few drachms to several ounces) of stone-forming material in the bladder and a sufficient accumulation of it in the penis to completely occlude the lumen of the urethra. This obstructive stone can often be readily broken up by pressure between the thumb and fingers. The walls of the bladder have been so stretched that hemorrhages take place in them, giving it the appearance of a large red mass. The urine of course under these circumstances becomes blood-tinged and in the larger animals as much as a gallon of it has accumulated.

In the handling of these cases there are three procedures, any one of which may be chosen. Immediate slaughter salvaging the carcass is one. The second consists of an operation in which the surgeon cuts down on the urethra at the point where it passes over the ischial arch into the tissues of the penis, whereby temporary relief can be obtained. Through this incision the operator may irrigate and flush out the bladder, removing any calcareous material which may be left in it. The animal will continue to urinate through this artificial urethral opening until all danger of tainted flesh is past or even until such time as is required to fatten him.

Because of the fact that these newly formed urethral calculi can be broken down, it occurred to the writer to try another surgical procedure which in some instances has proven successful. It consists of cutting down on the penis at the sigmoid flexure where the obstruction usually exists. The penis is then grasped with the thumb and finger over the site of the obstruction, applying pressure and rolling it for the purpose of breaking up the calculus and with the pressure of the accumulated urine above it the pieces of the calculus pass out. This operation has only been tried in a few cases, on which occasions it proved successful, but it is felt that it will be beneficial in many cases in these young steers with newly formed calculi. There is, of course, always the possibility of a recurrence, but by providing a more succulent diet, more exercise and giving a diuretic which increases the volume of the urine, further trouble may be avoided. This operation could be performed on bulls but it is unlikely that they would remain fit for service because subsequent adhesions, the result of the operative wound at the flexure of the penis, would probably interfere with the prolongation of the organ at the time of copulation. The site of the incision is posterior to the base of the scrotum on the median line. An incision about 3 inches long and 2 inches in depth is required. Epidural anaesthesia, or local anaesthesia with the animal in the recumbent position, is the most suitable restraint. The wound heals readily and quickly without suturing. On one occasion in an adult dairy bull the penis was grasped at the base of the scrotum without incision, and by applying pressure and manipulation the stone was broken up and dislodged after which the animal urinated a large quantity of blood-stained urine. The urine which came away first contained pieces of calculi and a blood clot. While such manipulation is possible in dairy type bulls it is not likely that one could successfully handle beef type bulls or fat steers for the penis is deeply imbedded in fat.

The occasions in which one meets with calcareous deposits and stone formation resulting from inflammatory changes within the renal organs of cattle are more rare and as a rule in more mature animals. In the College clinic a few such cases have been submitted for examination and treatment. There have also been a few specimens of kidneys from autopsied animals in which calcareous deposits were found. In these cases there has consistently been evidence of pyelonephritis.

The following report of an investigational visit to a farm on which a number of cases occurred is, however, the best example of such a condition. The herd was composed of Guernsey and Jersey cows which were kept chiefly for milk production. The stabling quarters were clean, sanitary, and well ventilated. The farm itself was of small acreage and consequently little opportunity was available to allow the cows on pasturage, with the result that they were more or less stable fed continuously throughout the year. The grain ration consisted of rolled oats, bran, oilcake, and wet brewers' grains. Their roughage was silage and alfalfa hay. The water supply was piped in from the town close by. It was very hard and heavily laden with inorganic salts.

Late in the winter of 1929–30 several of the cows were noticed somewhat indisposed and when urinating passed blood-tinged urine. Veterinary assistance was secured but one of the first animals affected died. One of her kidneys was forwarded to the College for examination and when split open accumulations of calcareous material surrounded by zones of degenerated tissue could be seen. Microscopically round celled infiltration about the glomeruli and other degenerative processes were quite evident. Following this a request was made for assistance to determine the nature of the disease. When examined it was found that three animals were noticeably affected and two others mildly so. The most severe case was in a three year old heifer. Her appetite was very poor, she did not ruminate, and she had had convulsions on a few occasions. Her coat was rough and dry and she was losing flesh rapidly. The pulse 80 and her temperature 101.5° Fah. A small amount of bloody urine which contained shreds of tissue was obtained from the bladder with a catheter. By rectal examination the left kidney was found enlarged and sensitive to manipulation. At the time of this examination she appeared somewhat better than she had been previously. Furthermore, it was learned that during the summer this heifer had manifested symptoms of urinary trouble while on pasture but she had apparently entirely recovered. The second animal examined was an aged cow whose urine was pink in colour, passed in small amounts and too frequently. Bladder and urethral irritation was manifested by continued straining and switching at the conclusion of the act of micturation. This cow was not greatly indisposed for her appetite remained good and her pulse and temperature normal. The third cow was also an aged animal and presented symptoms similar to those noted in the second case. The other two were very mild cases which could only be detected by a slight discoloration of their urine.

The animal which was most severely affected was slaughtered a few days after the examination and her kidneys were obtained. Both of them were affected showing degenerative changes macroscopically and microscopically indicative of pyelonephritis. Again, as in the first kidney examined, calcareous precipitates were found. By bacteriological culture the *Corynebacillus renalis* was isolated but it was not felt to be pathogenic, for inoculation in experimental animals was negative. The stone-forming material which had been precipitated in the kidneys of these cases has not as yet assumed the form of calculi. In other instances of greater duration calculi have been formed. In these cases the precipitation of stone-forming material is no doubt due to the changes in the character of urine as a result of the pyelonephritis.

Unfortunately when extensive calculus formation has occurred in either form of the condition there is little that can be done, other than giving temporary relief. In the way of prevention, certain measures may be established which will offset the tendency for their occurrence. More exercise, careful consideration of the diet with the elimination of foods which may give rise to renal irritation. The provision of water not so heavily laden with inorganic salts might also reduce the frequency of its occurrence.

PREPUTIAL LESIONS IN A YOUNG BULL

Clinic No. 308, April 1st, 1930.—The subject of this report was a young Shorthorn bull of exceptional quality and fancy breeding. When he reached the age of sexual maturity and it was desired to use him for service it was found that he was unable to copulate successfully. Sexual appetite was manifest but the ability to complete the act was lacking. Because the animal gave promise of being a highly desirable sire he was submitted to the clinic for examination. The character of the lesions found interfering with the copulatory act was of such a nature that they could be easily overlooked unless a very thorough examination was made. While in the writer's experience the condition is rather unusual, at the same time it is felt that a report of this case may be of value.

He was of a nervous disposition and before proceeding with the examination he was given two ounces of chloral hydrate and, as it was anticipated to protrude the penis, he was also injected through the first intercoccygeal space with a procaine solution to produce pelvic anaesthesia. As soon as there was evidence of these agents producing their action he was cast and tied. He was then placed in dorsal recumbency and the examination proceeded with. The opening of the sheath was everted and here a ring of ulcers was found completely encircling the orifice. They were encrusted with scabs and scurf and bled easily when manipulated. Some swelling existed thus rendering the orifice of the sheath smaller. The extremity of the penis and other related parts were apparently normal and it was decided that these lesions were solely responsible for his inability to copulate. Before letting him up the parts were thoroughly cleansed and irrigated with an antiseptic solution. A 2% mercurochrome ointment with lanolin as the menstruum was prepared for daily application to the parts. In the course of two weeks the lesions had all disappeared and he was apparently sound.

A subsequent report from the owner indicated that the treatment applied was successful for he had no further difficulty in getting the animal to breed.

AN ARREST IN THE DEVELOPMENT OF THE GENITAL ORGANS

Occasionally when examining cows and heifers for sterility, cases are submitted in which congenital malformations are responsible for the failure of the animal to conceive. In the history of the sterility clinics conducted at this institution white heifers of the Shorthorn breed are more frequently affected in this manner than any others. No logical reason for this phenomena occurring in these pure white heifers has been determined except that it may be due to inbreeding. According to Williams' text on Diseases of the Genital Organs the true case of "White Heifer" disease is one in which a persistent hymen is the main defect, but in our records we have on a number of occasions examined cases where the abnormalities were not confined to the genital orifice alone.

In some instances there is an arrest in the development of other parts of the genital tube. The condition is unquestionably a congenital one, although it usually passes unnoticed until the age of sexual maturity is attained. Recently a case of this nature was submitted to the clinic for examination and the findings are considered of sufficient interest to include in this report.

Clinic No. 493. September 26th, 1930.—This heifer was one of a Shorthorn herd which is kept for breeding and demonstration purposes. She was pure white in colour, of good conformation, and possessed feminine characteristics. On inquiring into her blood lines it was found that she was not inbred at all but rather her breeding was one of the most remote in the herd. She did not manifest estrum at as early an age as some others of the heifers, but ultimately she came in season and was bred when about two years old. After this she never appeared in estrum again and it was assumed that she had conceived. Late in the pregnancy period, when she should have been manifesting visible signs of pregnancy, it was noticed that there was very little change in her appearance except that of normal growth. At the time of this examination she had passed the parturition time.

An examination was requested to determine the nature of her condition. A glass speculum was used to examine the vaginal passage. It could only be introduced a short distance beyond the hymenal stricture. The vagina terminated in a blind, pointed extremity. No cervical os could be seen. Rectal manipulation revealed two uterine cornua each containing a quantity of fluctuating material, a smaller amount being in the left one. There was no uterine body and no cervix. Two parallel cords lying side by side could be traced along the floor of the pelvis back to the point where they became enlarged to form the cornua. These were remnants of the ducts of Mueller. The left oviduct was cystic and the left ovary contained a corpus luteum undergoing cystic degeneration. Both the right oviduct and ovary were apparently normal. She was hopelessly incapable of reproduction. Slaughter was recommended and the genital organs were procured for further examination. The findings observed in the ante-mortem examination were substantiated. The fluid contained in the uterine cornua was of thick consistency, dark brown in colour, about a quarter of a pint in the left horn and about half a pint in the right one. There was no connection between the two cornua, the membrane dividing them at the posterior extremity where they were joined together being almost as dense as their walls. They terminated abruptly at the point where normally the cervical passage should lead to the vagina. The ducts of Mueller seemed to disappear at this point but could be picked up again at about the place where the funnel-shaped extremity of the vagina terminated.

In all of our experience in the clinic we have not met with a case identical to this one. We have had cases in which there was a persistent hymen and cases in which there was an occlusion of the uterine cornua with a collection of fluid anterior to the stricture, but this is our first case in which there was not even a vestige of cervix. No explanation is offered as to the reason why these white heifers of the Shorthorn breed are so prone to these defects. The question, has this condition any relation to the fact that the skin of these animals is unpigmented? naturally arises. Is there some factor lacking in either the ovum or the spermatozoa whose fusion initiated the development of this animal?

HERD STERILITY

The following report of the examination of fourteen cows in a herd where considerable difficulty was experienced in getting a number of the cows to conceive indicates the variety of conditions that may be encountered where genital diseases are prevalent. The majority of the herd were grade Guernseys. There were also a few Jerseys and a few purebreds of both breeds. At one time abortion had been quite prevalent but at the present time only occasional cases were occurring, the greatest difficulty being sterility. The herd was kept for milk production and fed heavily for this purpose. Amongst the animals submitted for examination were several that the owner was not sure whether they had conceived or not.

Cow No. 3—Cervicitis.

Cow No. 5—Pregnant.

Cow No. 9—Nutritional deficiency. This cow had been milking heavily over a long period of time (almost two years) and she had on occasions manifested stiffness and lameness such as is seen in osteomalcia. Depraved appetite was also noticed. Cows affected in this manner quite frequently do not conceive and it was felt that the deficiency was responsible, for the genital tract was apparently normal.

Cow No. 11—Cervicitis and endometritis. By the use of an irrigating fluid and a return flow catheter purulent exudate was obtained from the uterus indicating endometritis.

Cow No. 12—Vaginitis.

Cow No. 19—Pregnant.

Cow No. 20—Cervicitis, ovaries indurated, the right being involved in adhesions. Case considered hopelessly sterile.

Cow No. 21—Pregnant.

Cow No. 26—Cervicitis.

Cow No. 27—Atonic uterus, atrophic ovaries. Had been milking twenty-one months. Latterly had not appeared in estrum.

Cow No. 28—Vaginitis, no estrum, well developed corpus luteum on the left ovary which was dislodged.

Aged Purebred Guernsey—Cervicitis, no estrum, milking for twenty months. Corpus luteum on right ovary dislodged.

Virgin Jersey Heifer—Ovaries small, atretic follicle present on the right ovary.

Guernsey—Vaginitis, cervicitis, left ovary cystic, irregular estrum.

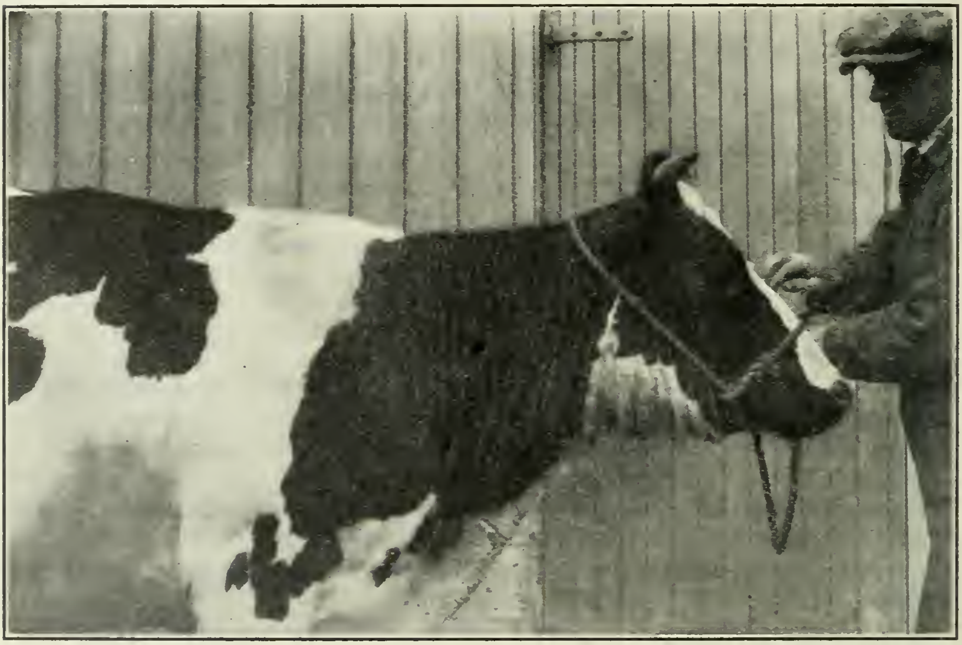
The history and findings of each case was recorded and an outline of treatment advised depending on the nature of the condition affecting each individual. In the treatment of sterility every factor which may have a bearing on its occurrence should be taken into consideration. The condition of the genital tract at the last parturition; whether the cow retained her placenta or not; whether the calf was healthy or not; the character of the uterine discharges following parturition; the character of estrum; the length of time the cow has been milking and the amount she gives; the nature of the diet provided and the management and care of the herd as a whole. Anyone handling sterility cases should give each detail due consideration and seek to correct or adjust obvious errors as well as applying specific treatment.

SEVERE CASE OF ECZEMA IN A HOLSTEIN COW

By R. A. McIntosh, M.D.V., B.V.Sc.

Eczema in cattle is not very common but on occasions cases are encountered. It is also very difficult to definitely determine causes for the condition. Eczematous reactions occasionally result from dietetic errors and also in some instances from external applications of an irritating nature. Skin infections may also cause it. The following clinical report is an example of a case that would not respond to treatment.

Clinic No. 357, April 21st, 1930.—The subject of this clinic was a four year old Holstein cow which had been milking for about six months and was kept along with a relatively large herd of dairy cows in clean sanitary quarters. They were well fed. No other members of the herd developed the condition. They had been stabled since the latter part of September the previous fall. There had not been any marked change in the diet. She had conceived about two months prior to this examination. The herdsman noticed that she was somewhat stiff in her movements, and that she was dropping off in her milk secretion. When examined the skin on both sides of her neck over the poll and around the ears was swollen, encrusted with scabs and exfoliated epithelium. The region of the escutcheon and the tail head were affected similarly. The skin in the affected region was lying in folds much the same as is seen in mange infested animals. Repeated scrapings and microscopic examinations, however, failed to reveal any parasites. Itchiness was manifest but not as marked as one would see in mange. The prescapular lymph glands were somewhat enlarged. Under the scale the skin was red, inflamed and would bleed easily.



Note the skin in the region of the neck and around the angle of the jaw lying in folds

Various agents were used in an effort to cure the condition but the response was very slow. By saturating the scale with olive oil it could be easily removed in twenty-four hours but it would only recur. As an external application lime and sulphur dip was used. Also white lotion and other astringents. Her diet was modified and she was given arsenic, calcium, sulphur and iron internally. The condition persisted for at least a month. By that time pasturage was available and within a week or two after being turned out the condition disappeared. The fact that she recovered when allowed to graze and to be out in the open would indicate a disturbance in metabolism resulting from a lack of vitamins or a nutritional deficiency.

Lead Poisoning in Cattle

Occasionally cases of lead poisoning occur due to cattle eating or licking paint or other material which may contain a sufficient amount of lead to produce toxic symptoms. Veterinary literature on the subject describes the chronic forms of poisoning more clearly than it does the acute manifestations. During the past summer two cases came under the observation of the writer in which the opportunity to note the symptoms of the acute form was provided. While there was no analysis of the stomach contents made to definitely establish the consumption of lead, nevertheless the evidence gained was of such a nature that one could be reasonably sure that lead was responsible for the condition.

The cases occurred while the animals were on pasture The field had produced a crop of hay and after the hay was cut and removed the fence posts were painted. The painters were quite liberal with their paint and at the bottom of every post considerable paint had been slopped around. In one corner of the fence where the painting operation had apparently concluded the remaining portion of the paint had been thrown out of the container on to the ground. It could be seen that portions of this paint thrown on the ground had been eaten. Furthermore, the cattle had eaten all of the long grass along the fence and around the posts, for there had been but little second-growth of the hay due to the drouth. The cattle had only been in the field about two weeks when the first case occurred.

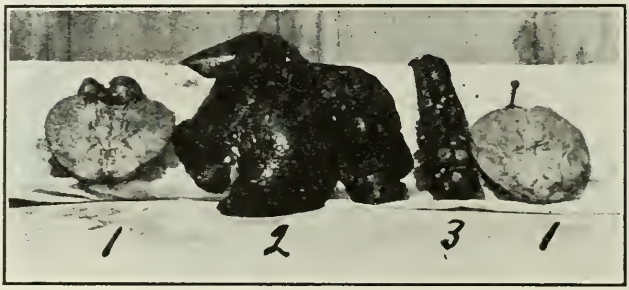
Clinic No. 464, August 25th, 1930.—This animal was an Aberdeen Angus heifer. She was noticed sick and an examination was requested. The symptoms were of a very acute character. There were extreme nervous manifestations. Her ears were constantly flappling. When on her feet she would swing in circles and when she was down tetany was evident, for the head was drawn back and the legs were held stiffly extended. Frequently she would grind her teeth and champ her jaws. Ropey saliva hung from the mouth, breathing was laboured, the mucous membranes highly injected, pupils of the eyes greatly dilated and her temperature elevated. Diarrhea was also manifested. Lobeline was administered to control tetany temporarily. The animal died an hour later.

A few days later another one of these animals became sick. This one was a pregnant Hereford cow. The symptoms developed quite suddenly but not so acutely as in the former case. She showed great depression, staggering gait, grinding of her teeth, salivation and bloody diarrhea. At times extreme nervousness. The pupils of her eyes were greatly dilated and her temperature was slightly elevated.

With a stomach tube magnesium sulphate, sodium hyposulphite and tannic acid dissolved in two gallons of warm water were administered. She was then loaded on stone a boat and with a tractor drawn to the barn and placed in comfortable quarters. Later in the day eserine was administered. The following day she appeared slightly improved. A pail of warm sodium bicarbonate solution was given with the stomach tube. Diffusible stimulants were also administered. The diarrheaic condition still persisted somewhat. She remained in the recumbent position most of the time. If forced to get up would stand with the legs braced, refusing to move. On the third day she died and a post-mortem examination was held.

On opening the abdomen and examining the viscera the abomasum was found to be intensely inflamed. There was also some enteritis. The liver was light in colour and the gall bladder full. The rumen contents were quite liquid in character but the omasal contents were quite dry.

In all of the available literature on the subject of acute lead poisoning gastro-enteritis is mentioned. This was quite evident in these cases and also marked nervous manifestations. It was assumed that these cases were due to the consumption of the spilled paint for there were no poisonous weeds growing in the field or evidence of any other nature that would produce such a condition. The remainder of the cattle were removed from the field and no further trouble was encountered.



(1) Submaxillary glands entirely caseous
(2) Liver showing numerous caseous spots
(3) Spleen showing caseous elevations

TUBERCULOSIS IN SWINE

The following report is of an outbreak of tuberculosis in a number of pigs in which it was evident that a very virulent infection was prevalent on the premises.

Clinic No. 375, May 2nd, 1930.—This pig was of Yorkshire breeding, one of a lot that were being fed for market. All of the pigs were coughing and as soon as the cough commenced they would lose flesh rapidly, swellings were noticed in the region of the submaxillary glands, some of which broke and discharged pus. Two or three litters of different sizes were kept and all of them were more or less affected. The pig presented for examination was very much emaciated. The submaxillary glands were greatly enlarged and his appetite poor. At times paroxysms of coughing would occur. He was placed in an isolated pen for observation. A few days later the owner brought two other pigs, one of which was dead and the other in a dying condition. In the post-mortem examination extensive tubercular lesions were found in both the thoracic and abdominal viscera. Both visceral and body lymph glands were involved. Both animals were acute generalized cases. The first pig brought in was also destroyed and a post-mortem examination made and it was found to be a generalized case as well.

The infection on these premises must have been very prevalent and highly virulent for these animals were all under six months of age and all of them showed very extensive lesions. The owner was instructed to dispose of all of his pigs subject to inspection, to thoroughly disinfect the premises and to have his cattle tested for tuberculosis, for it was felt that the infection probably came through feeding the young pigs milk from infected cows. A subsequent report revealed that the entire herd of cows reacted with the exception of two or three of the younger ones and even these were considered suspicious. The accompanying illustration indicates the extent of the lesions. The extreme size of the submaxillary glands, the numerous caseous spots in the liver and the lesions on the spleen can be seen. Each submaxillary gland was entirely caseous and approximately three inches in diameter. Bacteriological differentiation revealed the tubercle bacillus of the bovine strain.

Microphotograph of the thyroid showing the acini of the gland filled with colloid material

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FAULTY METABOLISM DUE TO COLLOID DEGENERATION OF THE THYROID GLAND

Clinic No. 265, March 18th, 1930.—The subject of this clinic was a Yorkshire sow aged ten months. She was one of a litter, the remaining members of which had done well and developed into thrifty normal pigs. This one, however, had never thrived after weaning regardless of being well fed and cared for. She never seemed satisfied with the ration provided. Latterly she was getting thinner and weaker. The owner requested a post-mortem examination to determine the nature of her condition.

The carcass was very much emaciated. The abdominal viscera were anemic in their appearance. The intestines somewhat dilated, the liver firm and the kidneys pale. The thoracic viscera were apparently normal. All of the lymph glands appeared normal but pale. The thyroid gland was slightly enlarged and its cut surface appeared degenerated. Specimens from the liver, kidneys and the thyroid were taken for section and microscopic examination. When examined there was some evidence of cirrhosis of the liver and the kidneys. The thyroid was completely involved in a process of colloid degeneration. Knowing the important part which the thyroid plays in the presence of metabolism it was decided that the condition found in this gland was responsible for the emaciation and stunted growth of the sow.

DEPARTMENT OF EMBRYOLOGY AND HISTOLOGY

The teaching of Embryology and Histology has been conducted in much the same manner as in previous years.

Embryology is taught to first-year students, the subject being presented in the form of lectures illustrated by means of sections which are examined by microscope and drawn. The idea is to present a course which will be preparatory to histology, genetics and obstetrics, as taught in the later three years of the College curriculum.

The instruction in Histology covers practically all the mammalian tissues and organs, thus preparing the student for an understanding of physiology, biochemistry and pathology. Each step in histology is illustrated by means of sections of tissue prepared for microscopic examination, the student being required to make careful and accurate drawings directly from the microscope. The course of instruction in histology covers both first and second student years.

DEPARTMENT OF ZOOLOGY

The methods used in the study of Zoology at the College have been revised and considerably extended, the object being to give the student a more comprehensive knowledge of biology, especially in regard to the parasitic animals. A laboratory course in zoology is now presented to first-year students in which Invertebrate Zoology is being more thoroughly described than was possible in previous years, and in which mounted specimens are examined by microscope. Dissections are also carried out. In the study of the protozoans living organisms are made use of when possible.

Meat Inspection

The course which is delivered to students of the senior year consists of lectures and demonstrations and is conducted with a view of giving the graduate who enters general practice a comprehensive knowledge of the subject and at the same time preparing students for entry into the Federal service under the Health of Animals Branch.

A CONTAGIOUS DISEASE OF DOGS CAUSED BY A BI-POLAR ORGANISM

By H. E. Batt, B.V.Sc.

During the fall and winter of 1929-30, and again in the fall of 1930 a disease broke out in a number of kennels which, in the first instances, was believed to be canine distemper However, where a series of cases occurred in the same kennel, and where there was an opportunity to observe the onset, course, and duration of the disease in a number of animals in several different establishments, it was noticed that the disease presented some striking differences from canine distemper, these being as follow: (1) Except in the acute form the disease ran a rapid and, in most instances, a more benign course than does distemper. (2) The onset is sudden, duration short and recovery rapid. (3) In many cases the cycle of the disease was complete in from seven to ten days. (4) No cases of typical distemper developed in a kennel during the epidemics. The discharges from the eyes were not profuse and when present were not so viscid as in distemper, neither was there much discharge from the nostrils. The discharge forms thin, whitish, dry crusts below the eyes and around the nose. Conjunctivitis is not marked, nor has ulceration of the cornea occurred in any of the cases observed. Age seems to be a predisposing factor, most of the cases occurring in dogs of from four to six months old. A few cases were observed in dogs from six months to one year old, but none after this age. In many instances the trouble began in a litter at teething age. The disease, in pups younger than six months, usually took the subacute or bronchial form and persisted in some instances for a month or more followed by gradual recovery. In older pups, about nine to ten months old, the acute form in which coma is marked was the commonest.

There appear to be three forms of the condition, viz.: the subacute or bronchial form, the tetanic or nervous form, and the acute or toxic form. In many instances these three forms will occur in a kennel and remain distinct one from the other, one or more forms occurring among pups of the same age or litter. However, it sometimes happens that an individual will present symptoms of two forms. In all three forms there is an elevation of temperature, with accelerated breathing. In severe cases the temperature may reach 106° F. The animal is very thirsty and the appetite is, in the more severe cases, interfered with.

Subacute or Bronchial Form.—This form of the disease is essentially a bronchitis and occurs mainly in pups about two months old. The condition comes on suddenly. In otherwise healthy pups one after another of the litter are affected and as a general rule the whole lot gradually develop the disease, although at times one or more will escape and show no symptoms of illness whatever. There are marked mucous rales together with fits of coughing, particularly after feeding or when roused from sleep. The cough is "loose" and "rattling." In many cases the appetite is not interfered with to any extent and the puppy seems to be in good spirits. In the more severe cases, however, appetite is poor and the animal does not grow as it should. Listlessness is present. The temperature is not elevated in the milder cases. This form of the disease may persist for weeks gradually subsiding as recovery takes place. Relapses may occur and in one or two instances the subacute form has developed into a typical broncho-pneumonia, or into the acute form, but this rarely happens when proper attention is given.

Post-mortem. There is a more or less severe bronchitis present, the bronchi containing mucous and sometimes pus. In mild cases (which were killed for post-mortem purposes) the lung substance is not involved to any extent, but in severe cases there is evidence of broncho-pneumonia. There is no evidence of any widespread infection and there is every reason to believe that most cases of this type will recover in the course of some weeks.

The Tetanic or Nervous Form. This form appears suddenly. An otherwise healthy pup will suddenly develop a difficulty in swallowing, together with or followed by a marked stiffness of the hind quarters. The animal moves with a stilty gait, the hocks cannot be flexed and the pup walks on the hind toes with legs slightly spread. After some hours the fore quarters become involved, the backbone becomes rigid and often tetanic spasms appear. The dog will lie on its side with nose between the fore paws, so that the picture presented is that of eclampsia or tetanus. The actions of the animal when attempting to eat or drink are very characteristic. There seems to be a more or less paralyzed condition of the muscles of deglutition and the masseter muscles are rigid. Because of the difficulty in standing the dog will often fall on his nose into the dish and if any food or water is taken into the mouth it will be ejected after an attempt at swallowing. Because of this the animal will sometimes go three or four days without food, although he will try to lap water. There is a slight discharge from the eyes, but little or none from the nose, which does not become very dry or hot. This discharge forms a whitish crust. No marked conjunctivitis is observed. This form of the disease is of short duration, in many cases recovery or death taking place within a week from onset.

Post-mortem. Congestion of lungs is always present, but not always pronounced. There is usually pericarditis with petechial spots in heart muscle. The intestinal tract is not involved. The brain seems normal, although slight edema was observed in some cases.

The Acute or Toxic Form. In this form symptoms of a pronounced toxemia together with coma predominate. The onset is sudden and the duration of the illness is often short, death occurring in some cases in as short a time as twenty-four hours. The animal is first noticed to be dull and refuses food, moves slowly and stiffly. The temperature is high, 104° to 106°, breathing is rapid. There is little or no discharge from the eyes or nose. Swallowing is difficult. There is no cough. The animal becomes comatose, showing pronounced symptoms of toxemia. The condition may persist for three or four days, when the animal either dies or recovers rapidly. In fatal cases death may occur quite suddenly as if from heart failure.

Post-mortem. The lesions in this, the acute form, are mostly confined to the thoracic cavity. There is a very marked congestion of the lungs with hepatization of parts or whole lobes. The heart muscle is petechial. There is a very marked pericarditis with much effusion into the sac. The liver shows evidence of infection by congestion and petechial spots. The intestinal tract is not involved.

Microscopical Report upon Lesion in Acute or Toxic Form

Lungs. Sections from the lobes of the lung show acute congestion and oedema. Many of the alveoli contain a clear fluid exudate which increases in quantity from the base of the lobes towards the apices and borders in which regions the spaces are almost entirely filled. The visceral pleura, perivascular and peribronchial tissues are oedematous and separated some distance from the adjoining parenchymatous structures. Cellular infiltration and haemorrhage are almost entirely absent. The respiratory passages are normal with a few exceptions where the terminal bronchioles are occluded with exudiate alone or together with small masses of detached epithelial cells from the mucous membranes.

Lymph Glands. Show great oedema throughout and congestion of vessels.

Thymus Gland. The oedema in this organ is so extensive that the lobules are separated from one another by a distance approximately equal to their own width. All blood vessels are congested and in some cases have ruptured with the resultant formation of petechial haemorrhages throughout the gland.

Spleen. All vessels are markedly congested.

Liver. Passive congestion is extensive. Over large areas the blood has laked leaving only the skeleton outlines of the erythrocytes and freed blood pigment in the surrounding tissues. The laking, however, has not occurred in regions immediately below the capsule of the organ. In extensive areas the cords have been much distorted or broken up by the great congestion and pressure from haemorrhage in the sinusoids and interlobular tissues. Albuminous degeneration is commencing over large areas but the abnormalities are confined to the cellular cytoplasm, few nuclei only show pyonotic changes.

Kidney. The changes in this organ are slight congestion throughout and albuminous degeneration chiefly confined to the epithelium of the convoluted tubules.

Heart. The intermyocardiac capillaries are congested and stand out conspicuously. In numerous places they have ruptured and produced petechial haemorrhages. The muscle cells show the early indications of albuminous degeneration.

BACTERIOLOGY

The following investigations were carried out in an endeavour to discover the organism producing this disease in dogs. Material from heart, lungs, liver, and spleen was plated on agar. The organs from dogs showing one or more typical symptoms were used.

January 16th. Plates from lung, heart, liver and thyroid were made.

January 17th. No organisms on heart, liver or thyroid plates. The plates from lung showed numerous fine colonies of Gram negative bi-polar rods. These were transferred to slants, sugars and milk.

January 21st. Reactions in the different media is typical of B. bronchisepticus. Sent for known cultures for comparison.

January 30th. Compared both suspected and known organism as to sugar reactions. Reactions in litmus milk, culture and potato growth and came to the conclusion that the suspected organism was B. bronchisepticus.

January 30th. Cultures were made from the lung of a pup suffering from the bronchial type of the disease. An organism identical with B. bronchisepticus was recovered.

February 17th. Lungs and hearts from three dogs suffering from this disease were examined and plates made. B. bronchisepticus recovered.

January 23rd. Twenty c.c. of a heavy saline suspension (living) of B. bronchisepticus from the case of January 21st were injected intraperitoneally in each of two dogs. These dogs were about five months old, were farm raised and were said not to have had distemper. These animals were under observation for a month but no disturbance was noticed.

At the same time 1 c.c. was injected into the peritoneal cavity of a rabbit and 1 c.c. in the cavity of a guinea pig. The rabbit remained healthy. The guinea pig was noticed to be sick about ten days after injection but lived until February 24th when it died. A necrotic area was found at seat of injection. Slight peritonitis was also present. The lungs were pneumonic and material from the lung was plated on agar and B. bronchisepticus recovered.

Morphology and Staining of Organism. In smears made direct from the diseased tissue the organisms appear as discrete, short, slender rods, frequently showing bi-polar staining. Smears made from cultures show marked variation in the size of the organism, from coccus-like forms to bacilli of several microns in length. The axis of the organism is straight; the ends are usually rounded and the sides slightly convex.

The organism is Gram negative, and stains poorly with methylene blue. Dilute carbol-fuchsin gives good results. The organism is motile.

Cultural Reactions. The organism grows readily on all culture media. The growth resembles that of the Pasteurella but is more abundant. There is no fermentation in dextrose, mannite, saccharose, and lactose. The growth on potato is characteristic, forming a moist, tan-brown, glistening layer upon the surface.

DEPARTMENT OF PARASITOLOGY

The activities of this department consist of teaching, laboratory routine and research work.

As numerous advances are being made in the field of parasitology certain modifications have been introduced in the methods of teaching this subject. Descriptions of the more important newly reported species of parasites have been added to the course. More emphasis is being placed upon systematic work and the laboratory study of parasites. Lectures are also included upon immunological work which is now receiving the attention of investigators in different parts of the world. Various charts have been obtained during the year which greatly facilitate the teaching of entomology and protozoology. Lectures are further supplemented by demonstrating life cycles with living material, by anti- and post-mortem examinations, and with microscopical and gross preparations.

During the year numerous entomological and helminthological specimens have been collected and mounted.

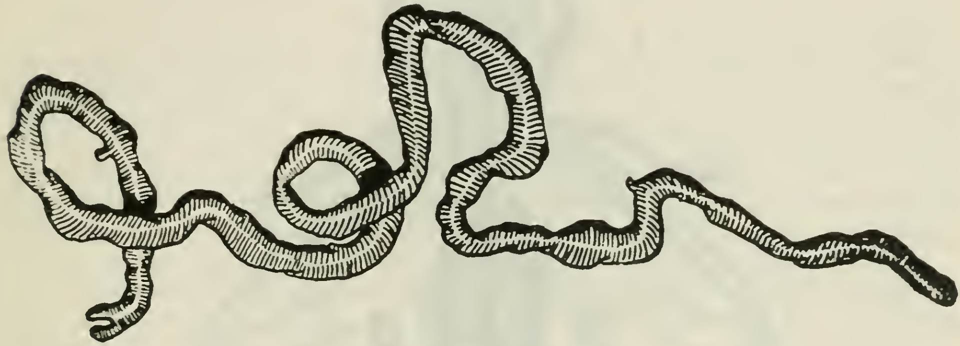
We also owe our thanks to Professor E. M. Walker of the University of Toronto, Dr. Seymour Hadwen of the Ontario Research Foundation, Dr. Ronald Law of the Ontario Experimental Fur Farm, and to Dr. Clay G. Huff of the University of Chicago for a considerable number of valuable and in some instances rare specimens which they have generously donated to the department.

Under the heading of teaching, assistance is also rendered to the Departments of Pathology, Histology and Zoology.

At the beginning of the Fall session a course of lectures upon fur-bearing animals was commenced. The aim of this instruction is to give students an elementary knowledge of fur-farming methods in general and more particularly regarding the husbandry of the animals and the diagnosis, course and treatment of their diseases. Methods of restraint, physical examination, administration of drugs and other therapeutical agents are demonstrated with experimental animals. The purpose of this course is also to give graduates sufficient confidence to serve the fur-farming as well as other animal industries.

The routine work is carried on in conjunction with other departments and consists chiefly of the examination of materials for diagnosis, autopsies, the preparation and interpretation of microscopical slides, routine blood and faecal examinations in connection with diagnostic and research work, and the preparation of class and museum material.

Addresses were also given during the course of the year before the Ontario Veterinary and Ontario Fox Breeders Associations.



Plerocercoid of Genus Ligula (*Original*)

PLEROCERCOIDS OF THE GENUS LIGULA FROM ONTARIO FISH

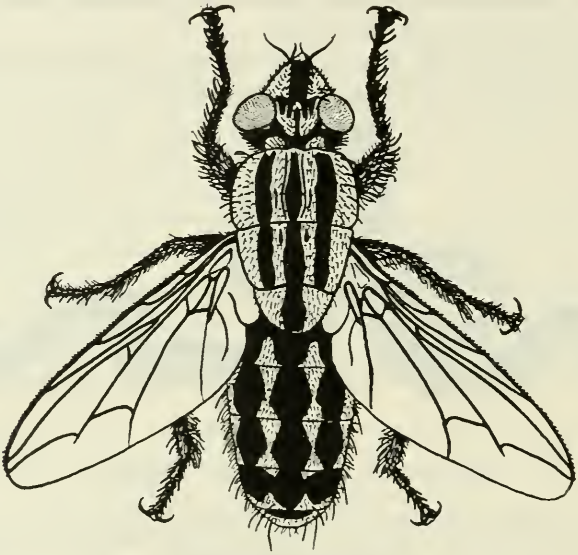
By A. A. Kingscote, B.V.Sc.

On the 23rd of May, 1930, three tapeworm larvae were received for identification from Dr. A. B. Perry, M.D., of Mount Forest, Ontario. Similar bodies were reported to be quite commonly found in the abdominal cavities of fish indigenous to the district and caught for food purposes. The specimens were identified as species of plerocercoid larvae of the genus Ligula (Family Diphyllobothriidae).

The larval parasites are elongated bodies varying in length from 16.0 to 50.0 centimeters. The average width is 1.0 centimeter but changes to a greater or less degree at irregular intervals owing to the presence of natural constrictions. The thickness measures 0.5 centimeter fairly uniformly throughout the entire length. The extremities terminate bluntly, and in one case, as illustrated by the text figure, a well marked cleft is present. The bodies are flattened laterally, marked by numerous fine cross striations, and on either side by a longitudinal line which extends throughout the entire length. In several locations small buds protrude from the margins. In some forms of plerocercoids these are the asexual origin of new individuals. No true segmentation or well marked features other than the above are noticeable.

We are indebted to Professor E. M. Walker of the University of Toronto for confirming the position in the animal kingdom of the specimens, and for the following information regarding their parasitism:—"Our species of this genus (Ligula), as far as can be determined, are not well known and are quite impossible to identify in the immature stages. The larvae are found chiefly in the Cyprinidae (minnows, chub, etc.) but they have also been recorded from suckers and trout. The adults live in the alimentary canal of water birds but are said to stay only a short time in the final host."

There appears to be no reason why fish with light infestations should not be used for human consumption provided the parasites are removed and the flesh appears otherwise healthy. Care should be taken, however, in feeding whole raw fish or their viscera to aquatic domestic poultry or birds in zoological gardens.



Wohlfahrtia Vigil (Walk) (*Original*)

A CASE OF MYASIS IN SILVER BLACK FOX PRODUCED BY WOHLFAHRTIA VIGIL (WALK)

By A. A. Kingscote, B.V.Sc.

On the 22nd of July, 1930, four dipterous larvae were removed from the subcutaneous abdominal tissues of a normal, ranch raised silver black fox puppy, aged four months. The larvae had apparently been deposited upon the healthy unbroken skin Each was located in an individual nodule resembling a boil in appearance. Every lesion had a circular opening in it of from two to three millimeters in diameter around which the fur was slightly matted by exudations.

The larvae were placed in a darkened jar with a supply of fowl flesh. They showed no inconvenience at the sudden change of temperature from that of body to room and in a few hours commenced feeding voraciously. On the fourth day they crawled together near the remainder of their food and commenced to pupate, the puparia gradually changing from a light yellow to dark brown colour. Eleven days later two flies emerged which were identified as Wohlfahrtia vigil (Family Sarcophagidae). The adults of the genus in question are distinguished from the more common grey flesh flies (Sarcophaga) by their bare arista and round spots on the abdomen in place of the chequered abdomen of the latter.

The larvae are removed from their host by first injecting a suitable lubricant into the openings of the nodules and then squeezed out by pressure of the thumb and index finger, or extricated by the careful manipulation of forceps. Mercurochrome or acriflavine solutions may be injected and applied periodically until the lesions are healed.

It is interesting to note in connection with myasis of fur-bearing animals that on the same ranch from which the above material was obtained a litter of five healthy mink were found to possess similar nodules from which larvae were removed. In this instance some of the lesions were upon the lateral surfaces of the thighs.

MYASIS IN SILVER BLACK FOXES PRODUCED BY LUCILIA CAESAR, LINN.

During the month of July several puppy and adult foxes in the course of an outbreak of dysentery were also noticed by their caretaker to be suffering from myasis. In each case the dipterous larvae had burrowed—in some instances a considerable distance—under the subcutaneous tissues of the anal and abdominal regions. In the passages thus formed they occurred in great numbers and in various stages of development. From the larvae removed from living and recently dead animals one hundred and eighty-five were placed in darkened jars with a supply of earth and flesh and in due course one hundred and thirty-seven flies of the above species immerged from the puparia formed.

Considerable suffering and in some cases fatalities might be avoided in such instances as the above by the use of fly repellants and the application of other fly control methods.

A NOTE ON PARAMETORCHIS CANADENSIS (LAW) FROM ONTARIO MINK

Early in 1929 the above new species of parasitic trematodes were discovered in the gall bladder of mink by Dr. Ronald G. Law of the Ontario Experimental Fur Farm. Since that time all mink carcasses received at the College have been carefully examined for the flukes in question with the view of gaining further knowledge upon their prevalence and geographical distribution. During the past year seventeen mink have been examined from widely separated points in the Province. The new species was recorded in one case from the county of Simcoe.

THE OCCURRENCE OF ACUARIA HAMULOSA (DIES 1851) (GIZZARD WORMS) IN ONTARIO POULTRY

Early in October an autopsy upon a domestic fowl revealed a considerable number of parasitic nematodes partially embedded in and partly protruding from the mucosa of the gizzard. The material was received from Dr. J. Glover of the College and the specimens have been identified as Acuaria (Chielospirura) hamulosa of the Family Spiruridae.

A CASE OF PARAGONIMIASIS IN AN ONTARIO DOMESTIC FOX

During the course of an autopsy upon an eight year old silver black fox which had died early in October an angioma-like lesion was observed at the base of the right lung near the bifurcation of the trachea. The pleura which covered this area was much fibrosed. On incision considerable haemorrhage occurred and upon the application of pressure four elliptical bodies were expelled. At first sight these appeared to be blood clots except that in size and shape they were markedly uniform. Upon washing the specimens with normal saline it was readily observed these were flukes. When at rest in the live state their average length was 10.0 mm. and width 5.0 mm., but slight contractions and extensions of their somewhat gelatinous-like bodies changed their shapes and measurements frequently. The dorsal surface was convex and covered with small spines, the extremities tapered gradually to blunt points, the ventral surface was flat bearing two well defined sucker discs, one at the anterior extremity and the other slightly anterior to the centre of the median line. The vitellaria were visible through the cuticle and arranged as longitudinal dark bands along the lateral regions.

Microscopic examination of scrapings from the cyst-like cavity formed by the flukes revealed an abundance of typical trematode eggs. No opening from the cyst could, however, be located into the adjoining bronchus and numerous scrapings from the nares, trachea, esophagus and examination of ingesta and faeces by flotation methods failed to reveal any eggs. The eggs in the lesion measured from 81.25 to 87.5 microns in length and from 50.0 to 53.12 microns in width.

The owner of the fox in question stated his animals only received deep-well water, but had, on a few occasions been fed small fish (shiners) from a local brook. It is possible that the fish are vectors of the intermediate host containing encysted cercaria.

It is concluded from the examination of the specimens that the flukes belong to the genus Paragonimus (Family Troglotrematidae). They have, however, been forwarded to Dr. Maurice Hall of the United States Bureau of Animal Industry who is kindly having the material examined for determination of the species.

THE OCCURRENCE OF PARENCHYMATOUS GOITRE IN SILVER BLACK FOXES

By A. A. Kingscote, B.V.Sc.

History. Two units of silver black foxes were kept by their owner at different ranches. In both cases the rations were prepared from the same source with the exception that one group received the addition of a small quantity of potassium iodide solution two or three times weekly. The other group by an oversight received none at all.

During the pelting season several carcasses from both groups were forwarded to the College with a request to report upon their general condition; the animals had, however, appeared healthy and their pelts were of average quality.

In the course of the autopsies it was observed that the thyroid glands of the five individuals from the latter group were greatly enlarged, and those of the former apparently normal in all respects.

Gross Examination of Thyroid Glands. Among those foxes which received the potassium iodide solution the average weight of the individual thyroid lobes was 0.75 grams. Four out of the five from the other unit were females. In each case the lobes were conspicuous by their size; their average weight was 3.25 grams; they were uniformly enlarged and not marked by any lobular elevations. The fifth carcass was that of a male in which case the right and left lobes weighed respectively 27 and 29 grams and had assumed the size and form of a pigeon's egg. All the animals in question were under one year of age.

Microscopical Examination. Section of the glands of normal weight and size revealed the usual histological picture of healthy thyroid tissue. Microscopical preparations of the enlarged lobes showed a uniform hyperplasia of the glandular acini with, however, slight decrease in diameter compared to that of normal acini. Colloid material, particularly in the enlarged gland of the male, was almost entirely absent.

Remarks. As indicated in the above history this is not the record of an experiment, but at the same time it would appear advisable to add iodized salt or potassium iodide solutions to the rations of fur-bearing animals in localities where cattle, pigs and other beasts suffer from impaired thyroid metabolism. Apart from the above cases it has been observed that the thyroids of Ontario foxes are frequently much larger than are those of foxes ranched in the other provinces where sufficient quantities of iodine are apparently supplied to all forms of life through natural agencies.

THE PREVENTION AND CONTROL OF PARASITISM IN FOX RANCHES

An Address delivered before the Ontario Silver Fox Breeders' Association

By A. A. Kingscote, B.V.Sc.

There are two ways in which an army may approach an enemy; one is to advance blindly into the latter's territory, indulge in insignificant skirmishes here and there and then retreat. The more effective procedure on the part of the aggressors is to send out their spies and ascertain how, when and where their opponents may be attacked to the greatest advantage. This is also true in combating the internal and external parasites which at any time may undermine the health, lower the production and reduce the pelt value of animals. The purpose of this paper is to suggest ways in which a breeder of fur-bearing animals may lay out—not a haphazard—but a well organized campaign on his ranch to control the menace of parasitism.

How Parasites Become Established in a Ranch

To fight parasites intelligently we must know something of their more important habits. The first encouraging fact is that they do not come into existence spontaneously. Thus, when present, they have been brought in with the foundation stock, or unconsciously by some insect, bird or human being who has picked up eggs or larvae at a ranch or some wild creature's haunts where parasites abound. Once established they continue to increase until their presence can no longer be concealed. In this connection Nature has endowed certain of her creations with remarkable powers of proliferation; for example, the vast number of seeds upon a single head of timothy grass; such numbers as these may be compared to the eggs in a single female worm. New generations of parasites occur at short intervals with the result that the number of individuals soon commence to increase in geometric proportions. It has been observed that one pair of range mites may become the grandparents of 1,500,000 descendants in about three months. These statements must not unduly alarm us; they merely emphasize the danger of neglect and inefficient methods of extermination.

The eggs of worms are not only eliminated by the bowels, but also with urine, and discharges from the nostrils. Those of the external parasites are shaken from the body to accumulate in large numbers upon the ground. There are many ways in which eggs and larvae may be transferred from one area to another. Men going from pen to pen step upon infected debris and disseminate such material about the ranch. Shovels used in cleaning the pens become heavily laden with eggs which are later rubbed off by the mere process of scraping up more dirt in adjoining enclosures. Actual experiments have proved how flies are capable of carrying eggs from one location to another. Other great reservoirs of eggs exist in the bodies of worms expelled after pilling. When these are not gathered up, birds, earthworms, insects and other agents are capable of distributing the unharmed ova in large numbers about the ranch. It thus becomes every rancher to be keen and observant, to locate for himself the danger sources in his own ranch—he must be a proverbial Sherlock Holmes.

Development and Infestation

In a few days or weeks young parasites develop in those eggs which fall into a favourable environment. Roundworms are unable to escape from their thick-shelled prisons until they are ingested by a suitable host. Some of these may be swallowed by the pups the first time they nurse. Other animals become infested by food carelessly thrown upon ground rich in embryonated eggs. Hookworms and fleas hatch out and feed upon organic matter about the pen. The former enter the bodies of their victims by penetrating the skin; the latter spend a period in a cocoon from which they finally emerge as perfect fleas. Many parasites in this early stage are capable of hibernating for months and years. In such a state they are extremely resistant to the elements and disinfectants. Vast numbers may be buried by various agents in the ground, and later again reach the surface. Many of the young worms which have entered the body pass through the tissues, like so many little needles, until they reach a large blood vessel running towards the heart. From this organ they are pumped into the lungs. Here the lungworms remain, but hook and roundworms continue up the windpipe and down the gullet to complete their development in the digestive tract. Even a few may cause a great deal of damage because all the internal organs of the body are lined with protective barricades of cells, which if broken down by worms may permit disease-producing bacteria to enter and destroy much tissue or even kill the animal. The internal parasites rob the animal they infest of its food, suck its blood, produce poisons and generally lower their natural resistance against disease. Fleas may produce anemia if present in sufficient numbers and are able to travel considerable distances, and so may be a source of danger in transmitting contagious diseases.

The Attack Upon Eggs and Larvae

As large numbers of eggs and larvae are present in the faeces—but we must recall not all—it stands to reason that with every particle of filth removed from a pen perhaps myriads of potential parasites are carried out at the same time. This, however, leaves many more to be accounted for—those that have been buried by the animals scratching and burrowing and others which have been washed down into porous soil by rain. Incidentally with the removal of filth the fly menace is automatically lessened. Grass and weeds afford shelter and moisture which are an ideal condition for the development of eggs and for this reason infested pens are better bare. Periodical removal of the top soil results in countless numbers of eggs being transferred with it. The material removed from the pens should not be piled in the open for insects to breed in and later return contaminated to the pens. The best procedure is to keep this covered, buried, saturated with insect repellants or heavily coated with lime.

Now a word regarding the hordes of larvae feeding upon organic matter. The saturation of the filth they live in with substances that make it inedible or untenable will play its part in accounting for another group. Five per cent. solutions of coal tar products liberally used from time to time will serve this purpose. These will also destroy the larvae and eggs they directly contact, and at the same time thoroughly disinfect the pens and act as fly or other insect repellants.

The fire torch has its uses and its limitations. For surface work it destroys all living material which the flame directly contacts for a reasonable time. Below a very shallow layer, the depth varying with the nature of the soil, it has no effect. Its maximum value is upon board or other impervious floors.

The installation of well constructed board floors is one of the most satisfactory methods of simplifying control measures. All the early stages of parasites are concentrated upon their surface readily exposing them to the unfavourable effects of sunshine, dryness and the action of artificial destructive agents. They save much labour and material compared to that which would be involved in cleaning and treating an equal area of soil. If such floors are built with a proper slope, rain will automatically wash off a number of eggs. They should be built a sufficient height above the underlying ground to prevent migratory larvae from reaching their surface, at the same time allowing air and light to enter below, otherwise conditions become unsanitary owing to the presence of molds, decaying vegetation and other organic matter. If cracks are present it must be borne in mind that the flame from a torch is not always sufficient to destroy bodies protected by the accumulated debris. Another important point to realize is that neglected board floors where filth is abundant defeat their own purpose and become a greater source of danger than soil.

The care of earth pens, rank with vegetation, where parasitic infestation has existed for years is another problem. To remove and destroy all eggs is on a parallel to attempting to gather up all the grains after they have been sown in a large field. Here another stratagem must be resorted to, namely, instead of destroying the parasites to change our tactics and escape from them. This may be accomplished by the installation of board floors, or removal of the ranch or pens to new ground. Such a procedure may be a considerable undertaking—yet the time and expense will be well worth it in the long run. Thorough sanitation must be observed in the new pens to avoid recurrences of infestation.

THE ATTACK UPON ADULT PARASITES

Everyone who has had experience with parasitic diseases of the fox will have observed that their manifestations become more severe in general as the summer advances. Hookworms, lungworms, ear mites and fleas are many times more abundant than they were in the spring. This is because winter conditions have markedly reduced their numbers. Thus early in June there are comparatively few, and it is obviously an advantageous time to attack them. There is a saying that one fly killed in the fall means a million less the following summer, which is fundamentally true. The same principle applies to parasites destroyed early in the season. Unfortunately this is a busy time about the ranch. Pilling adults and treatments for fleas and ear mites are postponed until infection becomes manifest—that is after generations have become established. A day's work early in the season is of far more value in an eradication campaign than several days late in summer.

The first treatment for both external and internal parasites should be followed by a second or third treatment at fortnightly intervals, and from then on as existing conditions justify. Many parasiticides only destroy the adults—the eggs escaping their action. The object is to attack the individuals that emerge from such eggs before they reach sexual maturity. In this way infestation may be constantly nipped in the bud. The common vermicides only remove worms from the intestines; the moment their action is completed new contingents of migrating larvae may arrive from the lungs. Hence again the necessity of repeating the treatment before they reach maturity. To gain the greatest advantage, as soon as the animals are treated an attack should be launched against the larvae. The passing of every day that this is neglected results in loss of ground gained by the pilling. After the worms are eliminated from the body the main object is to prevent reinfestation.

In regard to the actual drugs used it will suffice to say here that in the long run it is economy to purchase the best. Impure drugs may serve their intended purpose, but at the same time be extremely harmful to the animal they are administered to. Fresh material should always be on hand as many substances deteriorate with age or upon exposure to light and heat.

Directions for use of all parasiticides should be carefully read and followed out. Only too often the instructions regarding fasting are ignored with the result that both the drug and time involved in its administration is wasted. The labels on certain flea powder packages state that the contents only stun, and that the fleas must be combed out, gathered up and burnt. In spite of this many ranchers spend days dusting their animals and letting them go. A moment's consideration will show the futility of such methods. These powders are prone to deteriorate with age. In any case it is well to test their efficiency by the simple procedure of dusting a few insects in a covered receptacle. The effect may be observed as to whether they die or survive after the lapse of several hours. Thus we may be governed accordingly as to the value of the drug on hand.

Methods of Protecting Pups from Infestation

When the winter frosts set in little infestation takes place. With the realization of this fact we may co-operate with nature by making preparations to ensure that the pups of an expected generation will arrive in a kennel as free from infective material as possible. This may be accomplished by pilling the female, well on in the winter. If this is neglected vixen harbouring only one or two round worms may pass innumerable eggs into the den. One of the surest practices to protect the pups is that of keeping a thoroughly disinfected breeding kennel closed the year round until several days before whelping. At seven weeks the pups should be weaned and ensured clean pens. If the pens in which they are born are heavily infested, it is well worth while removing the pups in groups of three or four to small movable pens, which may be shifted to new ground occasionally during the summer. It is better to sacrifice space in this way than to suffer from parasites.

CONCLUSION

In summarizing it is obvious that there are no short cuts to controlling parasitism in a ranch; no one simple procedure will perform the task. It is a persistence of all possible methods of attack which produce results. Our goal should be to have a ranch free from parasites, but we shall do well to have them constantly in control; our endeavour must be to keep infestation down from the beginning, not to wait until the manifestations of disease force us into activity. Drugs have an important place, but after all is said and done, the most effective weapon is the practice of sanitation which prevents infestation.

THE DEPARTMENTS OF PATHOLOGY AND BACTEROLOGY

The work carried on in these departments may be conveniently considered under the following headings: tutorial, routine, research, and investigatory.

Tutorial—In both lectures and laboratory work the fundamental facts of the sciences being studied by the student are, as far as possible, presented in a manner which makes them something more than data to be memorized and stored in isolation until the day of examination and then forgotten. The methods employed in teaching have as their objective the awakening and development of the mind, more than the memory, and the unification and synthesis of the knowledge acquired rather than the unprofitable accumulation of isolated facts.

Many new and interesting specimens have been added to the museum, which are proving to be of great value in the teaching of pathology. A museum containing specimens representative of the more important diseases is a *sine qua non* in the teaching of pathology.

Routine—The routine work of the laboratory consists chiefly in the diagnosis of diseased tissues, the making of post-mortem examinations, the examination of fox feces for the eggs of parasites, and the preparation of the abortion bacterin and vaccine.

The services of a technician are sorely needed in order that the routine work may become what it should be, an important branch of the research work of the department.

Research—Experiments are being conducted to determine the most satisfactory method of administering iron to suckling pigs for the prevention of nutritional anaemia. Further, and more extensive experiments are being undertaken with alsike clover and equisetum as to the possible relationship of these plants to endemic cirrhosis of the liver of the horse.

Investigatory—Reports on the investigations made into a disease of horses occurring in the Cochrane district which proved to be Infectious Anemia (swamp fever); and into endemic cirrhosis of the liver of the horse as it occurs in Temiskaming are included in this report.

REPORT ON INVESTIGATION MADE INTO A FATAL DISEASE OF HORSES OCCURRING IN THE DISTRICT OF NORTH TEMISKAMING

By F. W. Schofield, D.V.Sc.

Acting on instructions from the Principal, I proceeded to the town of Cochrane in Northern Ontario from which place an urgent request had been received asking for an investigation into a disease which was causing serious mortality among the horses of the district. Three days were spent in the affected territory during which time many horses were examined and a thorough enquiry made into the nature and occurrence of the outbreak. I am greatly indebted to Mr. Pomerleau, the local agricultural representative, and Mr. Goode, the president of the Brower Farmers Association for the generous way in which they assisted in the investigation.

Some Important Local Conditions which Influence the Disease under Consideration. The district surrounding the town of Cochrane, where the disease seems to be most prevalent, is a newly settled one, having been opened up for farming during the last fifteen or twenty years. The following three facts seem to the writer to be of definite significance in any consideration of this disease. First, that only a few of the settlers are farmers in the strict sense of the word. Most of them are engaged in lumbering and road building as well as agriculture. For such services they receive an immediate and definite cash payment, while from their farming operations the financial return is uncertain. This results in large numbers of the horses of the district being gathered together in construction or lumber camps. Here, not only are the horses worked very hard but due to frequently improper sanitation and poor management, the conditions are ideal for the spread of any communicable disease. Second, the average settler is poor and therefore unable to build and equip a modern sanitary stable. For the same economic reason the animals are frequently unduly restricted in the grain ration, while hay, which is usually heavy in alsike, is fed in large quantities. In other words the care and management of the horses is frequently far from satisfactory. Everyone seemed to agree that it was a very hard country on horses. This is evidenced by the large number of horses shipped into the district every year to make up for the heavy losses. Third, the farm land is almost entirely heavy clay, which in the absence of any system of drainage results in the frequent and often continued collection of surface water in the lower areas. On many farms such surface water, or water which has drained into the numerous creeks, is the only source of supply for the horses when out on pasture.

These are serious facts when the disease in question is one which is chiefly spread by contaminated food and water and can only be controlled by careful sanitation. There is also a possibility that the disease may be spread by biting flies (Tabanids) which abound during the summer months.

The Economic Significance of the Disease. During the last few years the losses from this disease have steadily increased and while no definite statistics are available an average loss of one horse per settler per year would not be an over statement of the mortality for the last two or three years. This is a financial loss which simply cannot be borne by these people with their very limited resources in these critical years of pioneer life. It must be remembered that there is no easy way of escape from this disease when once it has become endemic in an agricultural community.

History of the Disease. The information gathered with regard to the entrance and spread of this disease in the district was somewhat scant and contradictory. It is possible that a few cases of the disease occurred soon after the settlement of the country some twenty years ago. The question of correct diagnosis naturally throws doubt upon the authenticity of these early cases. There is general agreement that during the last five years the disease has become increasingly prevalent. It is most probable that the disease was introduced by the importation of Western horses, as the disease has been endemic for many years in certain parts of the Canadian West. Its rapid spread can easily be accounted for by the frequent mobilization of these horses in lumber and construction camps. Statements were made telling of serious outbreaks having occurred among the horses in these encampments. In one small stable where three teams were kept for a period of six weeks during the past winter two horses have already developed the disease, while the whereabouts of one team is at present unknown. A serious feature of the disease from the standpoint of epidemiology is the frequency with which the disease assumes the chronic form and the prevalence of "carriers" among the so-called cured cases. A horse suffering from the chronic form of the disease will usually respond favourably to care and good feeding so that it can later be sold as an apparently healthy horse. There is no doubt that this is done and in part accounts for the dissemination of the disease.

Description of the Disease. This brief account of the disease is compiled largely from statements made by the settlers, and not from continued personal observation of the cases, which under the circumstances of the visit was quite impossible. It is of interest to note that there was almost complete agreement in the description of the disease, although narrated by many observers. The disease may occur in either an acute or chronic form. It is characterized by fever, dullness, rapid loss of flesh, staggering gait, paleness of mucous membranes, slight anorexia, rarely any evidence of pain, and with high mortality.

The Acute Form. This is ushered in by depression, fever, muscular weakness, which is very evident in the staggering gait, especially related to the hind limbs. There is a tendency to stumble, and knuckling at the fetlock is common. Mr. Gangon, a licensed practitioner who has seen many cases states that the temperature may rise to 106–107° F. In such acute cases there is usually anorexia, and death occurs in from three to five days.

The Chronic Form. This is by far the most frequent form of the disease and is characterized by intermittent periods of well being, when the animal appears to have entirely recovered from the infection. The first symptoms are those of weakness and wasting, with loss of spirit. The temperature is elevated 101–103° F. As the disease progresses the mucous membranes of the eye and lips become pale. Stocking in the legs is frequent. A swaying or staggering gait is seen in most cases. The appetite usually remains good; sometimes even ravenous. After several weeks of sickness a marked improvement in condition frequently takes place. This is but temporary, relapses almost always follow and with each relapse the animal becomes weaker and more emaciated, finally dying in an anaemic and exhausted condition months or even years after the first symptoms appeared. Permanent recoveries were reported, but they are very rare. The marked improvement in condition which may occur between attacks gives the owner an opportunity to trade or sell the animal which is unquestionably a serious factor in the spread of the disease.

History of a Typical Case. A thirteen year old horse bought on April 1st, 1930, and had come into the district from Montreal in June, 1929. Between June, 1929, and April 1st, 1930, this horse had changed hands three times. The animal was somewhat emaciated at time of purchase. After two months of careful feeding the horse was in good condition and ready for work. When stabled the water supplied was from a spring creek, but surface water was available when out in the pasture. The horse being in good condition was worked hard during June and July without any ill effect. August was a slack month with little work for the team. The first evidence of sickness was on September 1st, the animal being drowsy, clumsy in his movements and within a few days there was a marked falling off in condition. The appetite remained much the same. All work was discontinued and the animal carefully fed and nursed. By the end of September there was great improvement, the animal appearing to be perfectly well, in good flesh and spirit. Early in October the symptoms returned in a more aggravated form. Clinical examination on October 15th revealed the following condition. Marked depression or drowsiness, palor of mucous membranes, slight "stocking" in hind limbs, unsteady gait, general appearance of unthriftiness. The temperature registered 101 3/5. The erythrocyte count was 2 millions and the leucocyte count 16,000. Hemoglobin 25%. Blood serum gave slight yet definite precipitation with $HgCl_2$ 1—30,000. The team mate showed symptoms of the same disease on October 12th.

A Table Compiled from Data Derived from Examination of Nineteen Horses. During the visit two clinics were held, one at Brower on October 15th and one at Dunning on the following day. Of the horses brought to the clinics for examination, some were obviously suffering from disease, others were suspects, while others were apparently normal.

RECORD OF CLINICAL AND BLOOD EXAMINATIONS

Horse	Note	Clinical History and Findings	Examination of Blood			
			R.B.C.	W.B.C.	Hemoglobin %	Precipitation with $HgCl_2$ 1–30,000
Pat (1)		Sick for some time. Marked wasting. Pallor of mucous membranes. Very weak. Staggering gait. Slight oedema. Temp. 99 4/5° F. Pulse 66. Appetite fairly good.	3.2 million per cu. m.m.	13,200 per cu. m.m.	45%	4 +
Pete (2)	Team mate of Pat	No evidence of disease. Temp. 98° F.	6.0 million per cu. m.m.	....	85%	—
Pearl (3)	Occupying same stable as Pat	Languid for past three days. Some evidence of weakness. Knuckling. Temp. 103 4/5° Pulse 60. Appetite good.	4.8 million per cu. m.m.	11,400 per cu. m.m.	75%	3 +
King (4)		No evidence of disease. Temp. 99° F.	6.8 million per cu. m.m.	9,000 per cu. m.m.	100%	—
Pat (5)	Team mate of King	Loss of spirit and some loss of flesh. Not doing well. Temp. 101 1/5° F. Pulse 60.	6.4 million per cu. m.m.	12,000 per cu. m.m.	90%	2 +

RECORD OF CLINICAL AND BLOOD EXAMINATIONS—*Continued*

Horse	Note	Clinical History and Findings	Examination of Blood			
			R B.C.	W.B.C.	Hemoglobin %	Precipitation with $HgCl_2$ 1–30,000
Queen (6)		Very weak. Staggering gait. Emaciated. Marked loss of flesh. Mucous membranes pallid. Appetite good. Temp. 100 4/5° Pulse 66	4.0 million per cu. m.m. m.m.	20,000 per cu. m.m.	45%	4 +
Girlie (7)	Team mate of Queen	Moribund when seen. Appetite good until last	....	....	....	–
Rex (8)		Has been sick for some time. Loss of spirit. Some falling off in flesh. Drowsy. Clumsy on feet. Temp. 101 3/5°. Appetite good.	2.0 million per cu. m.m. m.m.	16,000 per cu. m.m.	25%	+
Jim (9)	Team mate of Rex.	Sick for three days. Sluggish. Slight anorexia. Temp. 101 1/5°	3.2 million per cu. m.m.	6,400 per cu. m.m.	35%	–
Gray (10)		Considered to be well. Very thin. Mucous membrane pale. Temp. 101 1/5°.	5.0 million per cu. m.m.	8,000 per cu. m.m.	45%	3 +
Bay (11)	Team mate of Gray	No history of sickness. Very thin. Temp. 99 1/5°	5.2 million per cu. m.m.	11,600 per cu. m.m.	75%	1 +
Paddy (12)		History of sickness with recovery, but not doing well. Seemed to be sluggish for last few days. Temp. 102 2/5°	..— —	12,400 per cu. m.m.	45%	3 +
Shortie (13)		Normal. Temp. 99 4/5.....	6.4 million per cu. m.m.	....	95%	....
Roxie (14)		Normal. Temp. 99° F.	....	....	90%	....
Mikey (15)	Team mate died 3 months ago	Normal. Temp. 100 2/3°	....	....	....	....
Nigger (16)		Normal. Temp. 99 2/5°	....	....	70%	....
Joe (17)		Normal.	....	....	....	....
Frank (18)		Normal	....	....	....	....
Donald (19)	Team mate of Frank	Not doing well	....	....	....	3 +

A study of these cases reveals the following points which deserve further emphasis.

Pyrexia. In every case except one (Pat) clinical evidence of disease was accompanied by a rise in temperature of from 1–3° F. In the case of "Gray" the presence of a temperature was the first indication of disease.

Leucocytosis. Almost all cases show a marked increase in leucocytes, which is in agreement with the conception of the disease as being a general infection.

Anemia. In most cases anemia with marked reduction in the erythrocytic count is present.

Transmissibility. The disease is apparently not readily communicable from the diseased to the healthy animal.

The Precipitation Test with $HCgl_2$. The test was carried out in the way described by Fulton in a recent article. (See A.V.M.A., Vol. 77, pages 58–61.) The regularity with which the sera from clinically sick horses gave a positive reaction, while sera from the normal controls were negative, would indicate that the test is of diagnostic value. As already pointed out by Fulton further work is necessary to ascertain its limitations and possibilities in the diagnosis of Swamp Fever, as well as its specificity in regard to other diseases.

The Origin of the Infection. Those settlers who believe the disease to be "swamp fever" state emphatically that the disease has been introduced into the country by horses coming from the western provinces. Thus quite a little feeling has been aroused against the continued importation of western horses. While in all probability the disease originally came from the West by the accidental importation of infected horses, the endemic, which at the present time is causing such serious losses, is due to local and not far distant sources of infection. In other words, the disease has been transplanted into a new and highly favourable environment for its unchecked development. While all possible protection from infected western horses should be given to these distressed settlers, yet the most serious and immediate need is that of checking the further spread of the disease from the many local sources of infection.

Conclusions and Recommendations. (1) That a disease of horses exists in the agricultural district surrounding the town of Cochrane, which would appear to be identical with the disease known as "swamp fever."

(2) That the local conditions of poor sanitation in conjunction with the unusual facilities for contact between diseased and healthy animals afforded in the lumber and construction camps makes for rapidity of spread and unusually difficult in eradication.

(3) That the economic loss caused by the disease is very serious in a community of settlers whose financial resources are limited.

(4) That a veterinary surgeon be appointed to the district for a stated period of time. His duties to be educational and investigatory; making known the values of sanitation and hygiene, and devising new methods for the control and eradication of the disease. Further work on cirrhosis of the liver could also be undertaken.

(5) The unpopular suggestion is again made, that oxen be substituted for horses where limited finances makes satisfactory sanitation impossible.

A REPORT ON ENDEMIC CIRRHOSIS OF THE LIVER (EQUINE) OCCURRING IN THE TIMISKAMING DISTRICT OF NORTHERN ONTARIO

By F. W. Schofield, D.V.Sc.

Following instructions from the Deputy Minister of Agriculture a visit was made to New Liskeard during the latter part of August, for the purpose of making further enquiry into the disease of horses known locally as "big liver" and "alsike poisoning." A previous report has been made on this disease, and is recorded in the Annual Report of the Ontario Veterinary College for the year 1928. The reader is referred to this report for much detailed information, especially as to the symptoms of the disease and the current theories as to its causation.

The Purpose of the Present Investigation. This was definitely limited in its scope, little attention being given to the clinical aspects of the disease, the one purpose being to discover and correlate facts of etiological significance. Opinions as to the cause and nature of this disease are numerous, and held tenaciously by their sponsors, but all are equally valueless until put to the critical test of carefully controlled experiments. Much information was collected, and considered in its possible relationship to the disease, so that the experimental work which must follow, might be well planned, and prove to be of significance in detecting the ultimate cause of the disease.

A careful enquiry was made into the history of each case, especially in its relationship to (1) the food supplied; (2) method of feeding; (3) method of farming; (4) nature of the soil; (5) climatic conditions prevailing, previous to, and during the course of the disease. A careful search of pasture land and hay field was made for the presence of poisonous plants.

Statement of the Problems Involved in the Investigation. In investigating the disease one quickly realizes that there are at least two questions which must be definitely answered. First, May alsike clover under certain conditions of growth or feeding become harmful for horses? Second, What is the cause of "liver disease" (hypertrophic cirrhosis). These two questions are intimately related because of a very widespread belief that alsike clover may be responsible for the diseased condition of the liver which occurs with such frequency in the district. The first question, as to the toxic or harmless nature of alsike clover could be answered without much difficulty by a series of careful feeding experiments. Such experiments ought to be undertaken as soon as possible, as the plant grows with such unusual vigor as to constitute the most important part of many pasture lands and meadows. If it may, under certain conditions, be harmful, immediate measures must be taken for its control, whereas if the plant is quite harmless the farmers will be relieved of much anxiety and also be possessed of a valuable food plant. The question as to the cause of the disease in horses may be one most difficult to answer, requiring long continued and various feeding experiments. The present investigation has brought some encouragement in the discovery of a toxic plant (Equisetum) being frequently present in the pasture and hay. While it is not known to cause cirrhosis of the liver, undoubtedly it has the power to cause most of the other symptoms which are characteristic of the disease. Proposed feeding experiments directed to answer both of these questions are outlined at the close of this report.

Brief Statement as to the Nature of the Disease. As the disease has already been fully described in another report the most characteristic features alone will be given. The only animal attacked is the horse, no cases having been observed in cattle or sheep. The disease is manifested by progressive weakness and loss of condition, which is almost always accompanied by marked jaundice. Cerebral symptoms with inco-ordination of movement are very common. Most cases terminate fatally. The most striking and constant lesion found on post-mortem is a tremendously enlarged liver—true hypertrophic cirrhosis. This organ, instead of weighing from 12 to 15 pounds, frequently weighs as much as 50 to 60 pounds. The disease occurs in both an acute and chronic form, and is most probably due to the effect of continued low grade toxic irritation. There is evidence to show that the disease has been occurring at intervals ever since the country was opened up for farming some forty years ago. It is a serious disease, causing heavy losses to these frontier farmers who are quite helpless to protect themselves against financial loss which they can ill afford to suffer.

A Summary of the Findings in an Etiological Study of Sixteen Cases of Cirrhosis

Fifteen farms were visited. On ten of these the disease had occurred within recent years, while the remaining five farms had always been free from the disease. First of all we will deal with those factors which would seem to contribute to the development of the disease on the ten farms where animals have been affected. Later, a comparison will be made with the five farms which have so far escaped the disease.

First. In every case of the disease investigated the plant Equisetum (horsetail) could be readily found in the pasture or hay fields to which the horses had access. In eight of the sixteen cases the owners admitted that horsetail had been unusually prevalent in the hay being fed at the time when the disease developed.

Second. In the majority—twelve of the sixteen cases—the first symptoms of the disease were noticed during mid-winter or early spring. That is, after several months of stall feeding. If the oats and the water can be eliminated as having no casual relationship to the disease, the dangerous element would appear to be present in the hay. The quantity of oats consumed in the winter is very much less, usually one-quarter the amount fed during the spring and fall while the consumption of hay is frequently increased by one-half. This again rather definitely points to the hay as the source of the trouble and at the same time removes any suspicion attached to the oats.

Third. In seven of the sixteen cases excessive quantities of hay had been fed. It is important to remember that an animal cannot protect itself from poisonous plants when these are dried and mixed in the hay, as when they are growing in the pasture.

Fourth. That in six of the sixteen cases the quantity of alsike in the hay fed was estimated as below 20%.

Fifth. That while alsike was present in the hay in every case, yet several farmers stated that they had on certain occasions fed alsike in much larger quantities and throughout a whole winter without experiencing any trouble.

Sixth. That outbreaks of the disease usually follow wet seasons and that wet seasons are most favourable to the growth of equisetum.

Seventh. That one genuine case of the disease was discovered in an animal which had been stable fed, never having been out on pasture. In another case, the horse, a four-year-old, had been on pasture for only two months during the four years.

Eighth. That no known poisonous plant, other than equisetum, was found after a careful scrutiny over large areas and on many farms.

Ninth. That the clinical history of the disease and post-mortem findings would indicate a disease of slow development, the result of long continued toxic irritation.

Before passing on to a discussion of these findings the history of a most interesting case already mentioned in clause seven will be recorded. We have here an authentic case developing in an animal which had never grazed on pasture land, but had been stabled in the town of New Liskeard ever since arriving in the district. If the disease in question is due to a poisonous plant, a tremendous area of potential danger and difficult investigation is ruled out by the elimination of the extensive pasture land common to all farms in this area and known as the "slash." This is land which has been burnt over by the forest fires, and is now covered with a great variety of vegetation.

History of Case—"Maude." This mare was purchased by a local farmer on December 2nd, 1927, within a few days of her arrival from the town of Renfrew, Ontario. She was continuously stabled in the town of New Liskeard, and used as a dray-horse. The feed consisted of hay and oats which were brought in as required by the owner, who has a farm within a few miles of the town. The first symptoms of disease were noticed in August, 1928, when the condition was diagnosed as "cirrhosis of the liver." The animal died in December, 1928. During the last two months practically all grain was refused but hay was eaten with apparent relish. Post-mortem revealed the typical large liver. Of added interest is the fact that a team of horses bought a few months before the purchase of "Maude," *i.e.*, in the summer of 1927, also developed the disease, which terminated fatally in both cases. The team had been kept on the farm most of the time, the grain and hay fed being the same as that supplied to "Maude." The team had free access to pasture. The history of these cases is most interesting and significant, the evidence pointing almost conclusively to the hay as the source of the trouble. The owner of these horses stated that the hay contained quite a little "horsetail" and that in the feeding of hay he had been most liberal. The alsike content of the hay was estimated at not more than 20%.

Conditions which are Unfavourable to the Development of the Disease. Five farms were visited where the disease had never occurred. Three of the five were located on the "limestone ridge," which is an elevated tract of land composed largely of limestone and running for several miles in a north-westerly direction from Dawson's Point, which lies a little east of New Liskeard on Lake Timiskaming. It was generally admitted that few cases of the disease had been known to occur on "the ridge." Both, methods of farming and crops grown, are practically the same as lower down in the clay flats, the only obvious differences being the high percentage of lime in the soil and the excellent natural drainage. It is claimed that alsike clover grows as well on "the ridge" as on the flats, but the growth in the valley is more luxurious. The number of tons of hay per acre is the same on the high land as the low land, but the low land growth is more bulky. The only fact of real significance observed was, that due to the better drainage the plant equisetum was quite scarce on "the ridge," as compared with its abundant growth on the flats. On the remaining two farms the absence of the disease is not easily explained. Equisetum could be found with ease in any of the fields and must at times have been present in the hay. The remaining observations are recorded for what they are worth. It is just possible that they have some bearing upon the occurrence of the disease.

First. On both of these farms a careful crop rotation was followed, viz., the land is two years in grain and then seeded down to timothy and clover for two years. Such a method of rotation keeps down the natural growth of alsike and holds in check the equisetum.

Second. On both farms the horses were fed a liberal supply of grain the year round, while hay was fed sparingly.

Third. The sowing of alsike was not practised, red clover being used as a substitute. This naturally resulted in a small quantity of alsike appearing in the hay. Rarely more than 20%.

Fourth. The horses were never allowed to graze in "the slash" where plants of all kinds grow, but were pastured in meadow land which is frequently under cultivation.

Discussion of the Findings. If the information which has been collected and here presented can be considered as a "body of reliable facts" the most reasonable and obvious deduction is, that some pathogenic principle is present in the food, and that suspicion lies heavily upon the plant equisetum. True, certain valid objections can be brought against such a conclusion, yet, in face of the evidence presented, no one would be quite bold enough to rule out the plant as unrelated to the disease. It belongs to a family with a bad record, several species being known to be poisonous to the horse. Feeding experiments must be made, which, if negative, will yet be of value in definitely eliminating one of the many possible causes. The possibility of alsike clover being toxic when grown or fed under certain as yet undetermined conditions seems rather remote. In fact, the evidence incriminating alsike clover decreases as our knowledge of the disease increases. However, for reasons already given, extensive feeding experiments with alsike ought to be undertaken as soon as possible. A point to be borne in mind is the possible toxicity of a combination of alsike clover and equisetum. No mention has yet been made of the disease being of microbial origin. Such a possibility has not been overlooked, but the existing evidence would seem to be against it. The disease occurring with such frequency on the low land where drainage is poor and following wet seasons does suggest the danger of parasitic infestation, especially when strongyles and cylicostomes abound in the caecum and colon. Experiments designated to induce heavy parasitism are worthy of consideration.

Note on Equisetum. This plant, several species of which were noted, is undoubtedly a very common weed of the farms surrounding New Liskeard. Due to the present season having been unusually wet—more than thirteen inches of rain during June and July—the plant was found in greater abundance than usual. Its very general distribution would indicate that at any time, when the climatic and soil conditions were favourable, a heavy out-cropping of the plant might be expected. When the season is favourable to the growth of hay and grain, their rapid development effectively smothers the equisetum, so that little appears in the crops. Proper rotation of crops and drainage of the land are valuable preventatives against the spread of this weed. The quantity of equisetum in the hay can be greatly diminished by the common practice of "cutting high", which leaves the greater part of the plant in the stubble. Also, when dry, as in the cured hay, the withered plant easily falls out on the ground in the handling of the hay between the field and the mow. The toxicity for horses of some species of equisetum is well known. However, the disease produced is dissimilar in certain essential features from that under investigation. It is quite possible that the variety growing in Northern Ontario differs in its pathogenicity from that occurring in the southern part of the Province. Feeding experiments alone can determine this important point.

Feeding Experiments Proposed with Alsike Clover and Equisetum

Experiments with Alsike Clover. The purpose of these experiments is to determine as far as possible whether alsike clover as it occurs in the Timiskaming district has any harmful effect when continuously fed to horses.

Horses to be Used in the Experiments. In all of these experiments it will be necessary to purchase horses outside the area in which the disease is endemic. It would also be advisable to use a minimum of three horses in each experiment, to escape the pit-fall of natural immunity against the disease. Young horses when possible should be selected. The feeding should be continued for a period of from 8 to 12 months.

Alsike Clover to be Used in the Experiments. The clover must be procured from the area where the disease is endemic. It is also of great importance that the clover should be pure, that is, free from all weeds. As suggested by Mr. Nixon, Superintendent, Demonstration Farm, New Liskeard, this experiment could be simplified by pasturing the horses on a fenced plot of alsike.

Experiment No. 1. To determine the effect of feeding large quantities of green alsike clover over a long period of time.

Directions for Carrying Out the Experiment. A large plot of land to be seeded down with alsike clover to ensure purity. Suitable quantities of the clover to be cut daily and fed while green to three experimental horses. The feeding to begin as early as possible in the spring and continue on to the fall. The animals to be carried over the winter on clean timothy hay until the following spring, when the feeding of alsike will be resumed and continued until the fall. The animals to be killed and a post-mortem examination made. Experiment to be conducted at New Liskeard. A clinical examination of all the horses used in the experiments, as well as examination of the blood and urine, to be made both before commencing the experiment and at stated intervals during the experiment.

Experiment No. 2. To determine the effect of feeding large quantities of pure alsike clover hay over a long period of time. The hay to be grown and cured at the Demonstration Farm, New Liskeard.

Directions for Carrying Out the Experiment. In order to insure the purity of the hay a special plot of land must be sown with alsike clover seed. When the plant is mature, the crop to be cut and cured in the ordinary way. Approximately fourteen tons of hay would be required, allowing 30 lbs. of hay per horse per day. Three horses ought to be used in the experiment, which should be continued for at least ten months. The animals to be then killed and a post-mortem examination made.

Experiment No. 3. To determine the effect of feeding alsike clover hay procured from a farm where the disease has occurred on several different occasions. The purpose of this experiment is to determine if possible whether alsike clover grown in certain areas may develop toxic properties, the harmful nature of the plant being related to unusual, and as yet unknown, conditions governing its growth. A very real difficulty in carrying out this experiment is that of securing pure alsike hay. Weeds or grasses mixed in with the hay would naturally vitiate the experiment.

Directions for Carrying Out the Experiment. A car load, approximately 12 tons, of hay to be purchased from a farm where the losses due to cirrhosis of the liver have been frequent. The hay to contain a high percentage of alsike. All hay used in the experiment to be carefully picked over and the weeds, as well as the coarser grasses, to be removed. Great care must be exercised in the preparation of the hay. Four horses to be used in the experiment; three to be fed the purified hay, the fourth to be fed on the picking, namely, that which is removed in the process of purification. The feeding to continue for about ten months, when the animals will be killed and a post-mortem examination made.

Experiments with Equisetum. Either the green or the dried plant may be used in these experiments. Since the evidence points strongly to some constituent of the hay as being the dangerous element, it would be wise to determine first of all the effect—especially upon the liver—of feeding dried equisetum. The conditions already laid down for the feeding of alsike would obtain here also.

Experiment No. 4. To determine the effect of feeding small quantities of dried equisetum over a long period of time.

Directions for Carrying Out the Experiment. The equisetum to be obtained from farms in the Timiskaming district where cirrhosis of the liver has occurred with frequency. Small quantities of the plant, from one-half to one pound per day, to be fed along with a good quality of hay grown outside the endemic area. Three horses ought to be used in this experiment which should be continued for six months, providing symptoms of disease do not manifest themselves earlier. Blood analysis and urinalysis to be made at regular intervals during the experiment. The animals to be finally killed and post-mortem examination made.

The experiments here proposed appear to the writer to be both logical, as based upon the data available, and imperative, as an attempt to solve an urgent and serious problem affecting the welfare of many farmers in an important agricultural district of the Province.

A recommendation to be urged, is that of making a thorough botanical survey of the farms in the affected district. This should be undertaken if at all possible during the spring and summer of next year.

In conclusion, I wish to express my sincere appreciation of the generous help given by Drs. Dunn and Kennedy during the whole time of the investigation.

ANEMIA IN SUCKLING PIGS*

By Frank W. Schofield, D.V.Sc.

That the raising of winter litters of pigs is becoming an increasingly difficult task seems to be the unanimous opinion of those who are engaged in swine husbandry. In fact, due to the heavy losses sustained, many farmers have ceased to raise pigs in the winter months. For instance, during the last few years the losses among winter pigs at the Ontario Agricultural College has been estimated at 50% of those farrowed. In another piggery the mortality during the past winter was almost 80%. Apart from such outstanding losses, there is undoubtedly an increasingly mortality among winter pigs which seems to be quite general throughout the Province of Ontario. Profitable pig production demands the raising of two litters per sow per annum. As the time of gestation in the sow is four months and the nursing period about another two, it therefore follows that one litter must be raised during the winter months, when losses among young pigs are unusually heavy. Intimately related to this biological fact is an economic one of considerable significance, that is, winter litters are usually more profitable, as they come on the market at a time when prices are high. The problem is thus two-fold. First, to determine the cause of the high mortality in suckling pigs during the winter months; Second, the devising of ways and means whereby the mortality can be reduced.

The first, and very important aspect of this problem was solved by McGowan and Crichton[1] of the Rowett Institute, Aberdeen, in discovering that the high mortality among piglets was constantly related to a nutritional anemia. They were also able to correct this condition by the feeding of ferric oxide in large quantities to the pregnant and nursing sows. However, their case reports and very satisfactory response to the treatment administered, would indicate that they were dealing with a less severe form of the disease than that which occurs during the winter months in Canada. Prior to their discovery the only noteworthy reference to such a condition among suckling pigs is that of Braasch. He reported heavy mortality among young pigs in certain sections of Schleswig-Holstein, especially where large modern piggeries had been established. On this continent the disease was first described by Doyle, Matthews and Whiting[2]. These workers after a very thorough investigation of the disease state, among other findings that: (1) The occurrence of anemia did not seem to be influenced by vitamins supplied in cod liver oil, yeast, and orange juice. (2) The addition of ferrous lactate to the ration did not prevent anemia in the young if kept under inside conditions. (3) There appears to be some factor in outside conditions which tends to prevent anemia. The latest, and from the standpoint of treatment, most important contribution comes from these "men of iron and copper" Hart, Elvehjem and Steenbock[3]. Their work will be referred to later; sufficient to mention now that they find in the administration of suitable iron salts a certain prevention and cure for the anemia of young pigs. Our own work, in conjunction with Professor Knox of the Ontario Agricultural College, began in the winter of 1928.

Description of Disease

It is quite unnecessary at this time to do more than mention the salient features of this disease along with those aspects which seem to have an immediate bearing upon the problem under consideration.

(*Paper read before Canadian Chemical Association, Ottawa, May 26th, 1930.)

Symptoms. In the early stages the only constant symptom is the marked pallor of all visible mucous membranes. When the pigs are three or four weeks old, growing fast, putting on weight and to all appearances doing well, a sudden change may come over the whole litter. They become unthrifty, lose weight, suffer from diarrhea, appear listless, and deaths become frequent. The best pigs are usually the first to succumb. Although the disease declares itself suddenly, an unrecognized but acute anemia always precedes the clinical manifestation of the disease.

Post-mortem Appearances. Apart from the pallor of the tissues, and the thin, pale blood one important pathological condition must be noted. The liver, in most cases has a characteristic speckled appearance. These innumerable, small, white spots represent areas of fatty degeneration.

Hematic Changes in Anemia. Before considering the pathological condition of the blood, a fact of considerable interest must be noted. It was surprising to discover that in most litters the little mates at time of birth showed a very marked variation in the hemoglobin content of the blood. This is not due, as was at first supposed, to hemorrhage from the umbilicus, but to individual variation in hematopoietic function. A high percentage of hemoglobin at time of birth is no guarantee against anemia, although there is evidence that such a condition is favourable. Rate of growth, both intra-uterine and extra-uterine, is the most potent single factor in determining the degree of anemia. The tiny pigs in a litter are usually plethoric compared with their companions which have developed rapidly.

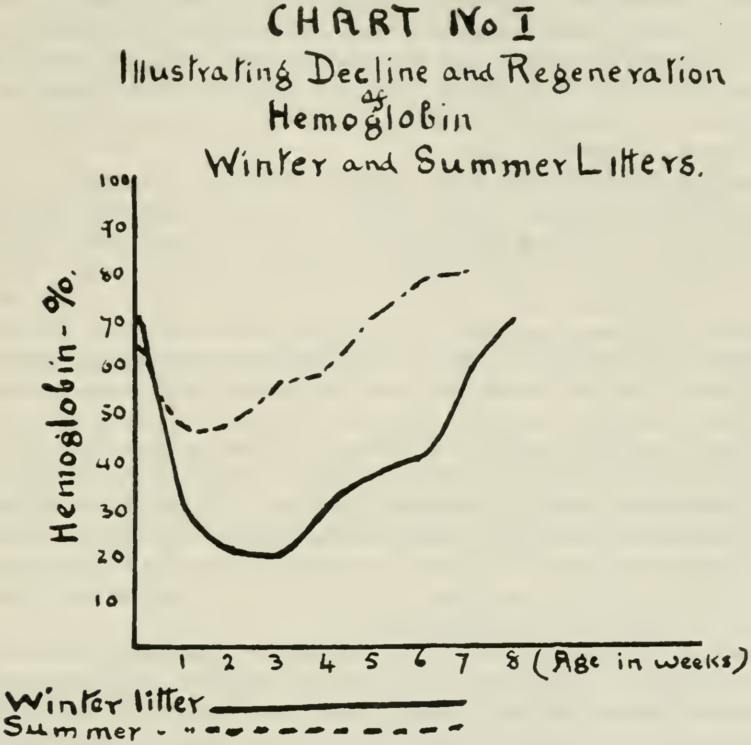
Hemoglobin Variation among Litter-mates
Estimated at Time of Birth

No.	Weight of Pig	Hemoglobin
1	3.8 lbs.	55
2	3.6 "	43
3	3.4 "	55
4	3.2 "	30
5	3.2 "	50
6	2.14 "	50
7	2.6 "	65
8	2.5 "	89

The sudden and severe decline in the quantity of hemoglobin is the most characteristic feature of anemia in piglets. This decline continues until the third or fourth week in winter litters, when spontaneous recovery occurs among the living remnant. In summer litters, especially when on range, the decrease in hemoglobin is not so severe and the recovery more rapid, while the mortality is practically nil. The mystery of the so-called "spontaneous recovery" in anemic pigs is undoubtedly due to the particles of food and fecal matter which they begin to pick up from their surroundings early in life. These features of the disease are well illustrated in Chart No. 1:

The Blood Picture. Blood films, made at the time of birth or soon after, show normal, well formed cells. As the disease progresses anisocytosis and anisochromia becomes very pronounced. In some cases normoblasts are quite numerous. In the acute form of anemia, erythrocytes, however degenerate they may be, are kept on duty. Anything that can carry oxygen must be conserved.

Erythrocyte Count. This is always subnormal but the degree of anemia bears no constant relationship to the number of red blood cells. The number of red blood cells in normal blood varies between from 5 to 7 million per cu. mm. The hemoglobin between 80% to 100% on Dare's hemoglobinometer. In acute anemia the hemoglobin frequently falls below 20% and the red cell count to 3,000,000 per cu. mm. The colour index is low.



FACTS AND FACTORS RELATED TO NUTRITIONAL ANEMIA

The important discovery that we have in iron a most effective prophylactic agent against anemia in pigs does not absolve us from further investigation into the, as yet, largely undetermined factors which contribute to the development of anemia in pigs. The disease may be labelled "Nutritional Anemia" and placed in the category of "Deficiency Diseases" but this does not answer the important question as to why the disease occurs on one farm and not on another, where both methods of feeding and management are very similar. Even less does it help to solve the problem of why, on the same farm and at the same time, a litter in one pen should be afflicted and die while in an adjoining pen the piglets show no serious evidence of disease. These, and other equally important questions, must be considered and answered.

Some Physiological Aspects of the Disease. It would seem as if nature had been careless, or at least unfair, in her treatment of little pigs; and this on several counts, all of which are conclusive to the development of anemia. First, the milk supplied, which is the exclusive food during the first few weeks of life, has a low iron content, .009%. Second, the rate of growth is unusually rapid, the pig doubling its weight in the first week, while before the end of the third week there is frequently a fourfold increase in weight. Such growth means very active metabolism and accelerated function of the red blood cells. Third, and most serious of all, the little pigs arrive minus fur coats to endure and survive the cold and frequently damp climate of a Canadian winter. Again, the red blood cells must be taxed to capacity in carrying oxygen to maintain a temperature of 101° F. in a humid atmosphere registering from 30° to 50° F. These are undoubtedly important factors in the development of anemia, but man and not nature has blundered. For we recognize in the fact of our interference in the life of the pig that we have changed a life, originally intimately related to the soil and vegetation, to one on boards and concrete, and from a semi-tropical to a sub-arctic climate. Thus are our hands stained with the anemic blood of innocent pigs.

Management and Environment. None of the domesticated animals experience a more varied environment than the pig. This is the outcome, in part at least, of the attitude of the individual owner to pigs in general, but rarely do they receive the same care and attention as the other farm animals. The environment and management vary to such an extent and in so many details that we have found it almost impossible to correlate the occurrence of anemia with any given set of conditions. Damp and cold are unquestionably harmful and especially to little pigs, with their low hemoglobin and unusual susceptibility to anemia.

The modern piggery where the disease has been so devastating is unusually damp and cold with concrete walls and floors. The plentiful sunlight and improved ventilation which is provided seem to be factors of little significance in the prevention of anemia. This is substantiated by several investigators, notably Craig and Hart. Working independently they both came to the same conclusion—that neither sunshine nor ultra-violet light had any effect in the prevention of anemia in suckling pigs.

Craig[4], after extended observations, offers very convincing evidence to show that the incidence of anemia is four times as frequent and the mortality five times as great among pigs kept inside as compared with those kept out of doors. the conditions with regard to feed, structure of pens, and management were practically identical for each group. No explanation is offered for the marked superiority in health of the outside litters (somewhat comparable to sleeping in a stuffy bedroom or an outside sleeping porch).

We have conducted but one experiment of this kind, with results which were slightly favourable to the outside litter. The method, beneficial as it may be, is quite impracticable during the winter months in Canada. The advantage of having the pigs in a suitable environment has been clearly shown in Chart No. 1.

Food. The influence on the offspring of the quality of the food consumed by the pregnant mother, with related experiments, is considered in another part of this paper. The brief observations recorded here may have little bearing upon the disease in question, yet they are not without interest. We have already noted that the pig, during the winter months, is isolated from its intimate contact with the soil and therefore deprived of its unfailing and varied supply of mineral matter. While most breeders recognize the need of adding a mineral supplement to the food supplied to the sow, the equally urgent need of the piglets is frequently neglected. The peculiar anatomical makeup of the nose of the pig would unquestionably suggests its essential function as rooting, i.e., discovering and devouring roots. When a litter of piglets is released for the first time from its confinement in a concrete pen they immediately turn to rooting in the soil. Some breeders attribute their success in preventing anemia to the practice of throwing sods into the pigsty at frequent intervals —once or twice a week—during the winter months. Another common custom is that of placing wood and coal ashes in the pen, or the loose earth from the root house.

It is impossible to evaluate these different ways of caring for the young, apart from an extensive and intensive survey of methods in swine husbandry. Possibly of greater benefit to the young pigs than the mineral actually devoured as they root in the sod and chew the charcoal and cinders is the fact that from such activities they learn to pick up scraps of food from the floor, and feed from the trough, at an unusually early age. This is of undoubted value in the prevention of anemia.

One other point: in the modern piggery with its carefully balanced rations the diet is restricted in variety, no domestic waste being added to the food, as is usually the case on the farm. Also the feeding of minerals is rarely from the floor of the pen but from a special container which is beyond the reach of the little pigs.

Heredity. There is at present no direct evidence for a genetic factor entering into the problem of causation of anemia, but certain observations make such an interpretation more than probable. For instance, it is not unusual to discover among several sows one whose litter shows marked resistance to anemia. As far as can be determined the resistance of the pigs is derived exclusively from the parents. In one such case the lowest individual reading for a January litter was 50% hemoglobin. The opposite condition of unusual susceptibility has been more frequently observed. Our observations would indicate that the quantity of hemoglobin in the blood of the sow is no index to the hematopoietic performance of the litter.

Although the percentage of iron in the milk of mammals remains remarkably constant for each species, and under ordinary circumstances is not influenced by the iron content of the food consumed, yet, as pointed out by McHargue[5], marked individual variations may occur. Somewhat similar individual variations have been recorded for iron storage in the foetal liver. Theoretically at least there are possibilities here which may account for these unusual cases. Breeding experiments have already been commenced at the Ontario Agricultural College with the object of determining if possible the existence of such a genetic factor.

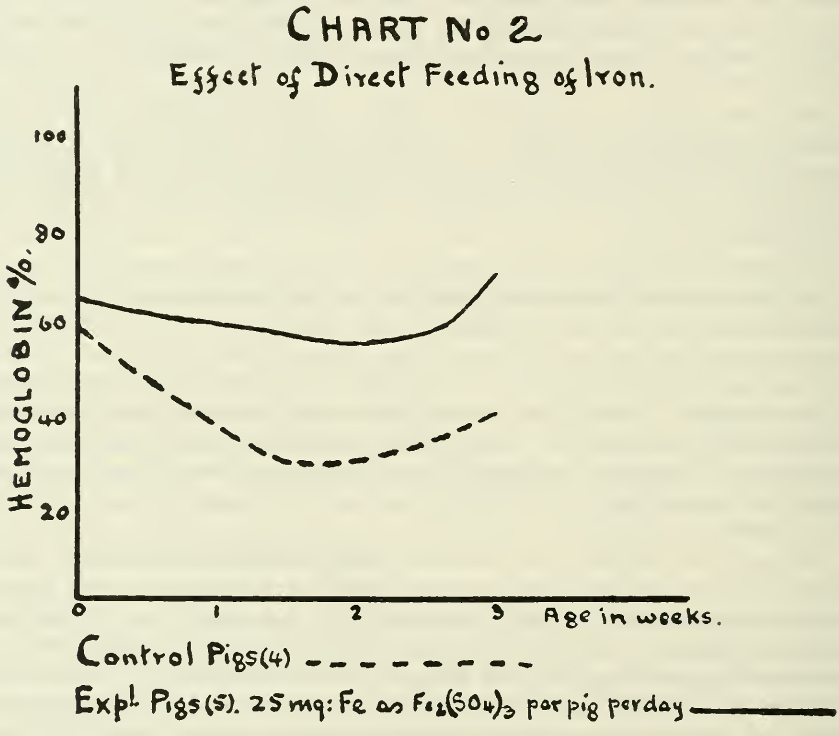
Feeding Experiments With Sows

FEEDING EXPERIMENTS WITH PREGNANT AND NURSING SOWS DIRECTED TOWARDS THE PREVENTION OF ANEMIA IN THE OFFSPRING

The number and variety of experiments that have been made by different workers with the purpose of preventing anemia in the young by some special modification of the mother's rations indicates a general recognition of the desirability and importance of such an achievement. The ideal way of correcting a deficiency disease in the suckling animal, is through the mother and not by the medication of the young. This is biologically sound, and also good practice, as the average farmer will not give the time or attention required for the daily dosing of a multitude of little pigs.

Considering the mother, there are at least two possible ways by which a deficient element, iron or other, may be provided in greater quantities for the needy young. First, by the addition of iron and other substances essential to hemoglobin synthesis to the food of the sow, with the expectation that it will be secreted in increased quantities in the milk. Second, that by making suitable additions to the rations of the pregnant sow the developing foetus may be enabled to build up adequate reserves sufficient to carry it over the period of low mineral intake and high mortality from anemia.

Up to the present the word "failure" must be written large over all such feeding experiments destined to protect the suckling pig against anemia. Only the briefest reference will, therefore, be made to such experiments, important as they may be. At the Ontario Agricultural College, numerous experiments in the feeding of sows have been made under the direction of Professor Knox. In different groups of experiments there have been added to the regular college ration (finely ground oats, 1 pound; shorts, 1 pound; skim milk, 1 pound to every pound of grain), 5% cod liver meal; 5% cod liver meal and mineral mixture; mineral mixture alone; and finally, the regular grain ration with no mineral addition. The results were the same in each case—no protection against anemia in any of the litters farrowed.



Doyle, Matthews and Whiting[2] report the feeding of five different grain rations, and five different kinds of mineral mixtures—very inclusive in their composition—with entirely negative results.

Hart, Elevhjem and Steenbock[6] have shown conclusively that the feeding of iron has no effect on the iron content of the milk in the cow and goat. They also make the following important statement, based upon feeding experiments with pregnant sows using iron and copper, and analysis of the liver of the pigs at birth: "We can conclude, therefore, that the reserve supply of iron and copper in the pig at birth cannot be increased by feeding the sows these salts."

Some hope is offered in the experiments of Titus and Hughes[7] which suggest that manganese and copper may be stored in the animal body prenatally and later be effective in the utilization of iron in hemoglobin building.

Thus the results of experimental work and clinical observation are in entire agreement, and it would appear that the suckling pig can expect little immediate relief by way of its mother. However, as usual, the biochemist has a partial remedy at hand.

Experiments With Suckling Pigs

EXPERIMENTS IN THE DIRECT FEEDING OF IRON TO THE LITTER

Due to the failure to prevent anemia in the young by the feeding of iron and other hemoglobin-forming substances to the pregnant sows, the less desirable method, that of direct feeding of iron to the suckling pigs, was undertaken. In our earliest experiments a sticky, iron (Ferric citrate) glucose mixture was employed. This was applied to the teats of the sow while nursing her young. Such treatment failed to prevent the development of anemia and was abandoned. In a recent article by Hart, Elvehjem and Steenbock[3] they report excellent results from the administration of iron in pig anemia. Our failure was undoubtedly due to faulty technique and not to the inactivity of the iron. Following their technique of oral administration we have obtained results quite comparable with their own. Chart No. 2 shows the effect of feeding 25 mg. of iron, $Fe_2(SO_4)_3$, per pig per day.

In this case the beneficial effect of the iron is very evident, maintaining the hemoglobin at a level which would prevent the development of anemia. It must be noted that the administration of iron was commenced very early, before the pigs were twenty-four hours old. The early administration of iron would seem to be an important factor if the treatment is to be really effective. Experiments with two other litters gave similar results, in that the hemoglobin level of the blood was maintained above 50%, which in our experience, will save the pig from the harmful effects of anemia.

The following chart, No. 3, shows a slow response to the treatment. Iron was not administered until the pigs were six days old. The low percentage of hemoglobin in the controls would indicate a litter highly susceptible to anemia and in which, under ordinary circumstances, the mortality would be high. Protracted cases of this type must be avoided if possible, due to the time consumed in administering the treatment.

Iron has been used in two litters only where acute anemia with clinical manifestations had been present for some time—ten days—and in both cases with indifferent results. While the hemoglobin was increased from 15% to 40% in some of the pigs, the damage to the organs and tissues was so severe that the pigs either died or remained unthrifty.

Experiment with Liver Extract—Liver extract, prepared according to the method devised by Cohn, was supplied to us by the Connaught Laboratories.* Two gms. of the extract, the equivalent of four ounces of fresh liver, was fed daily to each of three suckling pigs, in a litter of six. The remaining pigs served as controls.

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*Through the kindness of Dr. McHendry.

CHART No: 3
DELAYED TREATMENT.
(25 mg: Fe per day.)

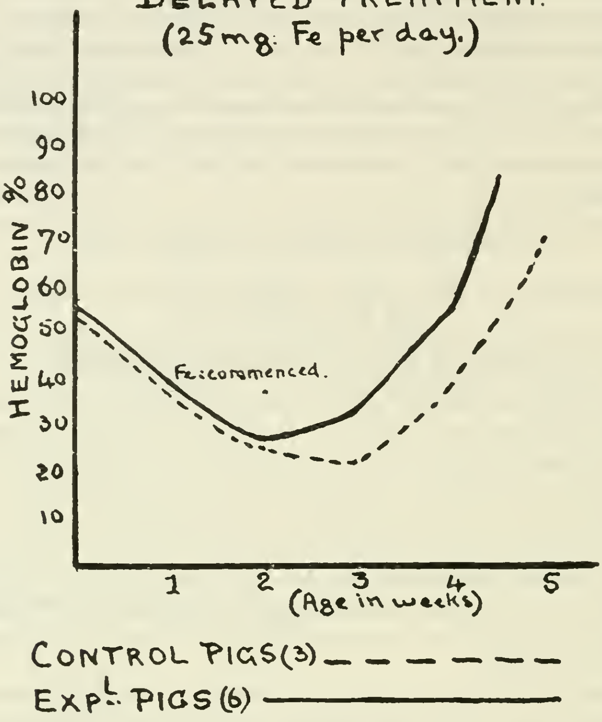
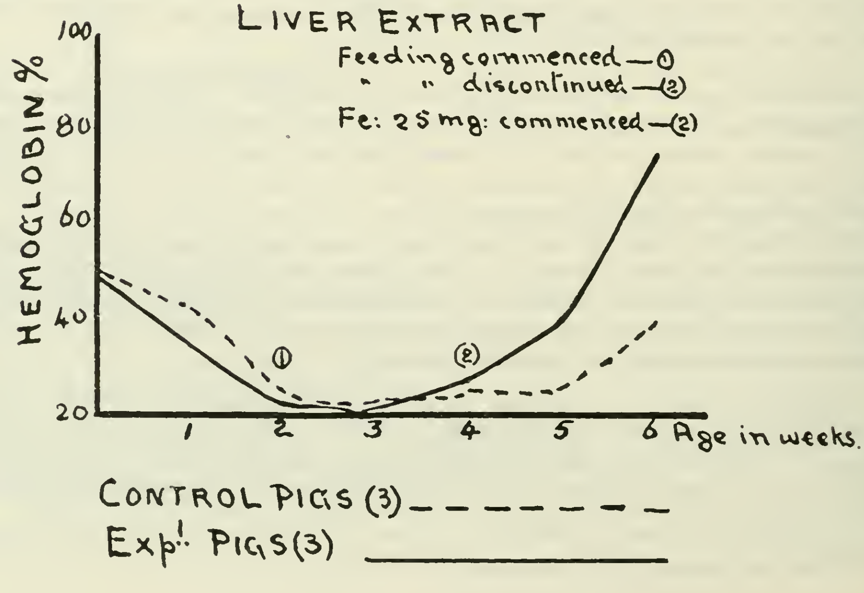
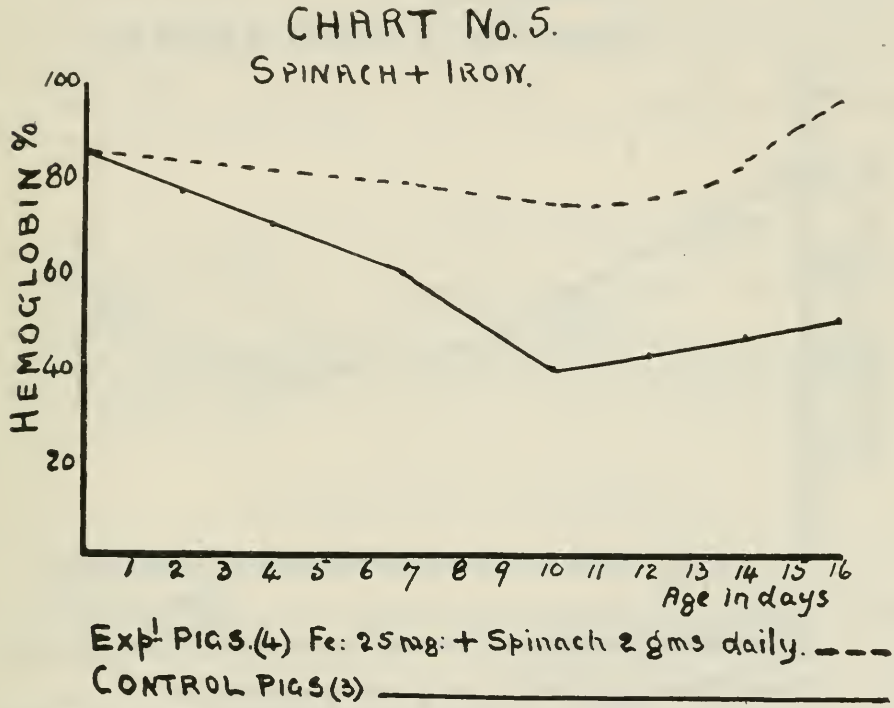


CHART No: 4.
LIVER EXTRACT



The liver extract had no appreciable effect in preventing the anemia, but the rapid recovery of these pigs when iron was later substituted for the liver extract is of interest. Usually when treatment with iron is delayed, as in this case, recovery is slow. Other investigators have noted and reported on the reverse of this condition, i.e., the rapid recovery of rats from nutritional anemia when small quantities of liver extract were added to a low level of iron. Such recovery has been attributed to the copper content of the liver extract.

Experiments with Iron and Spinach—These experiments were decided upon for the following reasons: First, the fact of rapid recovery from anemia among pigs which had access to green food suggested the possibility of such having a definite relationship to hemoglobin synthesis. The work of Simmonds, Becker and McCollum[8] would indicate that vitamin E is related to iron assimilation in the pregnant rat. Second, that iron alone did not always give satisfactory results in high hemoglobin production. Third, that traces of iron could usually be detected in the feces of anemic pigs. Fourth, that sows giving birth to winter litters had in most cases received little or no green feed for several months prior to farrowing. While the feeding of spinach to young pigs is not a practical procedure, yet the experiments were thought to be worth while for what they might contribute to our present knowledge of nutritional anemia.

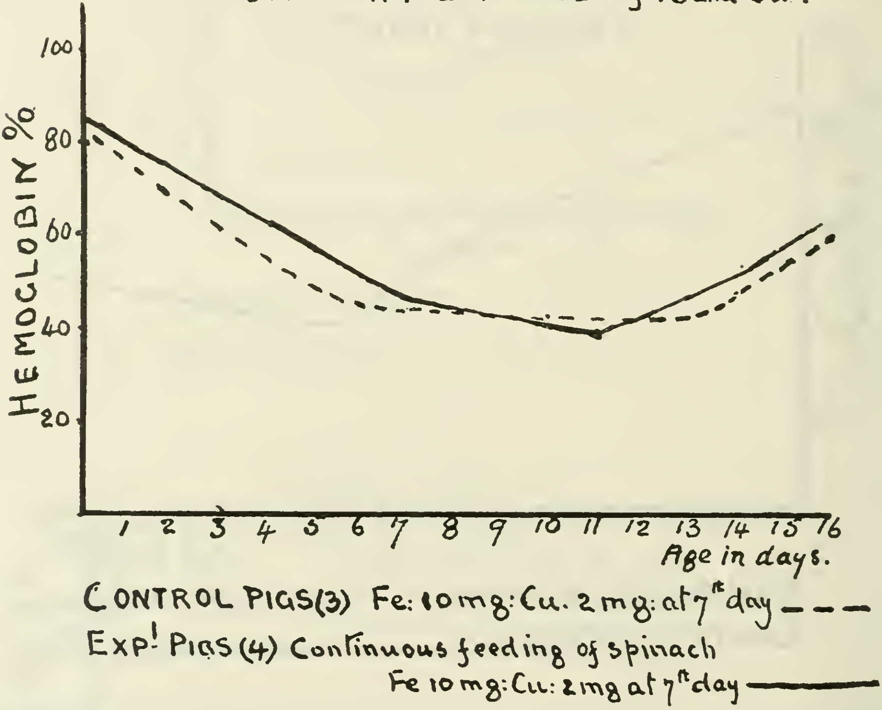


A litter of seven pigs was used in the first experiment. Four were given spinach with the usual dose of iron (25 mg. per pig per day). Three were kept as controls. The spinach was prepared by grinding to a pulp the leaves of the fresh plant. The coarser particles were removed by passing the pulp through a fine mesh sieve. The result, as seen in Chart No. 5 is superior to that of any litter receiving iron alone. There is but a slight decline in the hemoglobin at the end of the first week, with more than recovery by the end of the second week. Unfortunately there is no proper iron control on the individual litter. (It is of interest to note that this and the following experiment were carried out on a farm where no winter litters had survived during the last two years.)

This experiment was therefore repeated with the following modifications. Four pigs from a litter of seven were fed on spinach for a period of seven days. This, as will be seen in the chart, had no effect on preventing anemia. After the first week the feeding of spinach was continued to the four pigs and the whole litter put on a minimum dose of iron and copper. A quantity calculated to prevent any further decline in the amount of hemoglobin, but not sufficient to cause any marked and sudden increase. By this method it was thought that an accurate estimate of the hematopoietic influence, if any, of spinach could be determined.

CHART No: 6.

SPINACH + LOW LEVEL of Fe and Cu.



We interpret the result as shown in Chart No. 6 as being definitely negative, indicating that fresh spinach fed in such quantities as in this test has no effect on iron assimilation in the pig. The slight difference between the spinach-fed pigs and the control pigs was due to a hemoglobin rise in one pig only, the remaining three spinach-fed pigs showing quantities of hemoglobin identical with the controls.

Experiments to determine the effect of the addition of copper to the iron are now being made but cannot be reported on at the present time. It is of interest to note that even Hart[3] questions the necessity of copper for hemoglobin regeneration in the pig.

Most of our experiments have been made on early spring litters, which in part at least accounts for the very favourable results obtained from the use of iron. The critical test of the iron treatment will be its efficacy in preventing anemia in pigs farrowed during the excessive cold of midwinter.

Conclusions

(1) That a definite and frequently fatal disease of suckling pigs, characterized by an acute anemia, is of common occurrence in this province.

(2) That it develops during the first two weeks of life.

(3) That it is intimately related to indoor life and iron deficiency.

(4) That spontaneous recovery occurs in many animals which survive to the fifth or sixth week.

(5) That the disease cannot be prevented in the young by the addition of the ordinary minerals, iron, copper, manganese, etc., to the ration of the mother.

(6) That the disease can be prevented by the early oral administration of iron to the young.

I wish to express my sincere thanks to Dr. A. A. Kingscote for his most generous assistance in this work.

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MYELOBLASTIC LEUKAEMIA

BY F. W. SCHOFIELD, D.V.SC.

We are indebted to Dr. Cutcliffe of Brantford for the pathological tissues and history of this unusual case which he kindly supplied to us.

History. The subject was a yearling bull which was in apparently good condition and was slaughtered for food purposes. The unusual size of both the liver and spleen caused some doubt as to the suitability of the carcass for human consumption, and a request was made for examination and judgment to be made of the carcass.

Spleen. This organ weighed twelve pounds. On section the splenic pulp was noticed to be paler than normal and softer in consistency. The pulp bulged from the cut surfaces due to the contraction of the over distended capsule upon its contents. There were numerous small hemorrhages in the capsule.

Liver. The weight was 22 pounds. While in general morphology the organ had changed but little the colour was paler than normal. There were several circumscribed grayish white areas which suggested metastatic growths.

Kidney. Slightly enlarged and definitely mottled. No other changes were noted.

Very marked lesions were present in the distal extremity of the ribs, at the costo-chondral articulation. The rib was diffusely swollen, the enlargement being more marked on the internal surface. The swollen area was of a semisolid consistency, brownish in colour, with areas of hemorrhage, and contained numerous spicules of bone. The underlying bone was rarified and easily crushed by moderate pressure.

Microscopic Appearance—Liver. Extensive infiltration of the liver with cells which showed marked irregularity in size. These cells had the appearance of myeloblasts. The nucleus was granular and slightly oval; the cytoplasm which took the eosin readily was limited and uniformly disposed around the nucleus.

Kidney. Heavily infiltrated with myeloblastic cells, especially in the cortex, resulting in the atrophy and destruction of large areas of the parenchyma.

Tumor from the Rib. The growth is composed of masses of cells quite similar to those found elsewhere. Groups of red blood cells are occasionally seen. Fibrous tissue in the form of trabeculae is present, but in very limited quantities and giving no evidence of definite structural arrangement.

THE PRESENCE OF AGGLUTININS IN THE BLOOD OF VETERINARIANS

By F. W. Schofield, D.V.Sc.

The observation of Huddleston[1] with regard to the frequency and meaning of agglutinins against *Brucella abortus* Bang in the blood of veterinarians seemed to us to be of sufficient significance to warrant the testing of a group of veterinarians practising in this province. This was done during the summer meeting of the Ontario Veterinary Association.

Eighteen specimens of blood were examined for agglutinins, the test-tube method being employed. The antigen used was "Carpenter strain" No. 80. Of these, eight (or 44%) showed the presence of agglutinins in dilutions of 1:80 and above, which is recognized as the titre indicative of infection. Four showed agglutination in a 1:640 dilution; one in a 1:320 dilution; one in a 1:160 dilution and two in a 1:80 dilution. It was interesting to discover that the ten veterinarians whose blood showed the absence of agglutinins all gave a negative history when questioned as to infection, while three of the eight whose blood showed *Brucella* agglutinins gave histories strongly suspicious of undulant fever. The remaining five with positive blood test had no history of sickness which could be confused with undulant fever. Among those whose blood was negative were four men who had been practising for over thirty years during which time they had removed hundreds of afterbirths. There was apparently no relationship between the quantity of milk consumed and infection.

These findings harmonize with those of Huddleston and others, and would indicate that *Brucella abortus* Bang is an organism of low pathogenicity for the human being, and also that its invasive powers are not marked, when we consider the frequency of contact even with massive infection. The route of infection must, however, not be lost sight of, which is more likely via the alimentary tract than through the skin.

The results of questioning in regard to the rash which so frequently occurs on the arms of those removing retained fetal membranes were not in entire agreement with the views expressed by Huddleston. The rash which he described with its "small, discrete, and elevated reddish papules" accompanied by intense itching was experienced to a greater or lesser degree by almost every veterinarian in the group. There was little evidence, however, that the rash was caused by the proteins of the *Brucella abortus.* In most cases the rash only appeared when two or more afterbirths had been removed within a short period of time, say twenty-four to thirty-six hours. It would appear to be related more to direct irritation of the skin than to the *Brucella abortus.* In one case, however, with a titration of 1:640 the diffuse erythematous type of rash occurred and was most probably related to *Brucella abortion* infection.

REFERENCE

[1]Huddleston, F. I., The Significance of Brucella Agglutinins in the Blood of Veterinarians, J.A.M.A., 94, 1905 (June 14), 1930.

THE SUSCEPTIBILITY OF THE SILVER BLACK FOX TO THE VIRUS OF CANINE DISTEMPER

By F. W. SCHOFIELD, D.V.Sc., and A. A. KINGSCOTE, B.V.Sc.

This experiment was undertaken in the hope of gaining some accurate information on the following matters which are of vital importance to those engaged in fox ranching. First: Is the silver black fox susceptible to canine distemper? For many years there has been much controversy on this point but as far as we know no definite experiments have been undertaken, so that opinions and not experimental data form the basis of most of the discussion. Second: If the silver black fox is susceptible to canine distemper can immunity against the disease be developed by the use of the Dunkin-Laidlaw vaccine? Third: Is it possible that the so-called "fox encephalitis" is really a form of distemper? There is much similarity in symptoms between some forms of "nervous distemper" as it occurs in the dog and encephalitis as it occurs in the fox. Both diseases are apparently due to a filterable virus. Outbreaks of encephalitis have already occured in Ontario ranches, and with serious consequences, due to our lack of any adequate knowledge with regard to the disease.

TECHNIQUE OF THE EXPERIMENT

Six fox pups were used in the experiment. The pups were placed in a cage and kept under observation for several days, and were apparently in perfect health.

On July 14th three of the pups were inoculated with Canine Distemper Vaccine according to the method of Dunkin and Laidlaw. The pups remained perfectly healthy. On August 14th all of the pups—six—were inoculated with the Live Virus. All of the inoculations were made subcutaneously.

August 22nd. One of the pups which had received the live virus only was found dead in the pen. All of the pups appeared to be sick. They were off-feed and drowsy.

August 25th. Another one of the pups which had received the virus only died. The remaining pups were still feeding poorly and evidently sick, but showing nothing characteristic.

August 29th. The first of the immunized pups died.

September 1st. The last one of the pups which had received the virus only died.

September 2nd. A pup which had received the vaccine and the virus died.

Only one pup of the six survived. This pup was off-feed and evidently sick for about ten days. It was one of the three which had been immunized with the vaccine only.

Symptoms produced by the virus: These were most indefinite. All of the pups showed anorexia, with loss of flesh and general condition. They were listless and appeared to be suffering from a profound toxaemia. There was a slight discharge from the eyes, in some becoming muco-purulent. There was no nasal discharge, or any evidence of respiratory infection. Of equal importance is the entire lack of any cerebral symptoms or even nervousness.

Post-mortem appearance: Thé post-mortem changes were much the same in all cases.

Abdominal viscera: Small intestines; some evidence of catarrhal inflammation but this was most likely due to the presence of hook worms. Liver: a few pale areas which may have represented foci of degeneration. Most of the liver tissue appeared normal. Spleen: a few small superficial haemorrhages. Slight enlargement of the organ. Stomach: in one case there was extensive and acute inflammation. One other case showed slight inflammation, the remainder were normal. Kidney: pale in all cases.

Thoracic viscera. Heart: apparently normal in all except one case in which subendocardial haemorrhages were present. Lungs: no marked changes except for occasional areas of hyperaemia. Both visceral and body lymph glands were slightly congested.

The brain and meninges were altered in two cases only. In one of these the lateral ventricles contained an excess of fluid and showed numerous petechial hemorrhages. Both of these cases showed some meningeal congestion.

Microscopical sectioning of the tissues is not yet completed.

Conclusions

Although the animals in the experiment were few in number yet the results were so uniform in each animal that definite conclusions would seem to be warranted. These are (1) The silver black fox can be artifically infected with the virus of canine distemper. (2) That there is an absence of what might be called diagnostic symptoms. Diagnosis of the disease from the clinical appearance alone would be extremely difficult. (3) That fox encephalitis is apparently a distinct disease from canine distemper and not the cerebral form of the latter disease. (4) That the vaccine or "dead virus" failed to give any protection against a subsequent injection of the living virus.

We are grateful to Mr. W. O. Thompson, of Kitchener, Ontario, for supplying the foxes used in the experiment, and the Lederle Company of New York for kindly supplying the vaccine and virus.

MILK HYGIENE, POULTRY DISEASES AND SEROLOGY

J. S. GLOVER, B.V.Sc.

During the year ending October 31st, 1930, the work conducted may be summarized under the following heading:

Teaching.—A course of lectures and practical work in milk hygiene was given to the fourth-year class. This course included visits to dairies and dairy farms. A course of lectures in poultry diseases was also given to the fourth-year class, and, owing to the ample material received it was possible to make this course a practical one by having the students conduct ante-mortem and post-mortem examinations and make bacteriological examinations where necessary. Assistance was also given in instruction in laboratory bacteriology to the third and fourth years.

Preparation of Biological Products.—One hundred and two thousand, six hundred test doses of *S. pullorum* antigen and positive and negative control sera were distributed to veterinarians for the agglutination test for *S. pullorum* infection. This amount was far in excess of that distributed the previous year, and consequently more time was required for the preparation of this product. Eight hundred and fifty test doses of *A. abortus* antigen were also sent out for use by veterinary surgeons. About twenty thousand doses of fowl pox vaccine were prepared for use in investigational work.

Investigation.—Comparatively little time was available for experimental work owing to the steady increase in routine examinations. Reports on the work that was done in connection with fowl pox vaccination, culture medium for *S. pullorum*, lice on fowl, comparison of tube and rapid agglutination tests for *A. abortus* infection, and nutritional disease in fowl are submitted in the following indices. As a member of the antigen committee of the North Eastern States Pullorum Disease Control Laboratory Workers I have had to devote a certain amount of time in the selection of suitable strains of *S. pullorum* for the preparation of *S. pullorum* antigen. In this work valuable assistance was rendered by Miss A. Le Grand.

Routine Examination of Specimens.—This consisted of the routine examination of samples of fowl and cattle blood, and the bacteriological or such other examination at times of other specimens. Assistance was given by Miss A. Le Grand in the testing of blood. As in the previous year the only fowl bloods examined were from the Poultry Husbandry Department of the Ontario Agricultural College, and breeding stations under the supervision of the Department of Agriculture of Ontario. Testing for others was carried out by certain practitioners to whom we supplied the necessary antigen and control sera. The number of routine poultry autopsies is steadily increasing.

BLOOD SERUM EXAMINATIONS

Animal	Disease	Number of Samples Received	Positive	Suspicious	Negative	Unfit for Testing
Fowl........	*S. pullorum* infection .	14,337	964	—	13,373	—
Cattle.......	Infectious abortion...	5,295	1,093	761	3,333	108

SYNOPSIS OF BACTERIOLOGICAL AND OTHER EXAMINATIONS COMPRISING 2,540 SPECIMENS

Condition or Disease	Cattle	Sheep	Swine	Poultry	Miscellaneous
Abortion	3				Milk 59
Blackleg	2				Blood 6
Hemorrhagic Septicemia	9	4	2	67	Pus 19
Mastitis	1				Urine 1
Adult Pullorum Infection				56	Semen 1
Arthritis				2	Tankage 2
Ascites				4	Dogs 10
Avian Diphtheria				65	Cats 1
Avian Typhoid				34	Canaries 4
Blocked Bile Duct				1	Rabbits 9
Bumblefoot				2	Fox 6
Cloacitis				8	Mink 2
Colds and Roup				48	Muskrat 1
Coccidiosis	1			289	Eggs 4
Cystic Oviduct				5	
Egg Bound and Yolk Concretions				45	
Enterohepatitis in Chicken				29	
“ Turkeys				21	
“ other birds				3	
External Parasites				15	
Feather Pulling and Toe Pecking				2	
Impaction of Crop				1	
Infectious Bronchitis				14	
“ Tracheitis				10	
Injuries				9	
Leukemia				41	
Nutritional Conditions				254	
Oedema of Wattles				2	
Osteomalacia				1	
Poisoning				4	
Prolapse				4	
Pullorum Disease of Chicks				654	
Ruptured Gall Bladder				2	
“ Liver				9	
“ Oviduct				8	
Scaley Leg				3	
Torsion of Intestines				1	
Transient Paralysis				2	
Tuberculosis				70	
Tumors				53	
Visceral Gout				11	
Other Infections				4	
Worms (Round)				144	
“ (Tape)				221	
“ (Gizzard)				2	
“ (Both Round and Tape)				62	
Putrid and not diagnosed				111	
Totals	16	4	2	2,393	125

HERMAPHRODITISM IN THE FOWL

J. S. Glover, B.V.Sc.

The existence of both male and female organs in the same body is apparently as rare in fowl as in mammals. References to this abnormality have doubtless been made; but a rather hasty review of scientific journals has failed to disclose to the writer any report of the finding of such a case. It is therefore considered that the following results of an examination should be recorded.

A Rhode Island Red fowl (dead) was recently received at the College for examination. The bird was apparently eight or nine months old. No history was obtainable at the time, the letter accompanying the carcass simply asking for information as to the probable cause of the illness of the bird and how it could be cured. (The fowl was alive when despatched.)

Post-mortem examination revealed the following: A cystic right ovary was present, and the other ovary appeared as a mass of inflamed tissue, the follicles being hardly distinguishable to the naked eye. Two testicles, each about a third of an inch in length, were situated in the normal position. The whole of the parietal peritoneum was inflamed. The back of the bird was denuded of feathers and the tail feathers had also been pecked or pulled out. This lack of feathers suggests that the bird was treated as a pariah by the rest of the flock.

A STUDY OF THE GROWTH OF *S. PULLORUM* ON VARIOUS CULTURE MEDIA

By J. S. Glover, B.V.Sc.

The standard culture medium for the growth of *S. pullorum* used for years at the Ontario Veterinary College has consisted of the following ingredients:

Beef liver infusion	500 c.c.
Peptone (Difco)	10 c.c.
Sodium chloride	5 c.c.
Agar	15 grams
Distilled water up to	1,000 c.c.

No sodium hydroxide has been added, and the reaction is about p.H 6.2. This medium has always been found suitable, and the growth, after 48 hours incubation at 37° C., has been abundant.

It has been suggested that a more satisfactory medium was one prepared from Difco beef extract. Undoubtedly this would entail less work, and could be safely adopted as a standard, as the beef extract could be obtained by all laboratories, whilst fresh beef liver is not always available.

The formulae of the fifteen media studied, together with a comparison of growths of three pullorum strains and agglutination results of a mixture of these strains grown on the various media are given in the following tables. It will be readily seen that Media 3 and 1 gave the best results as regards growth, although Medium 7 would be considered as the best from a sensitivity standpoint.

Medium 1

Fresh beef infusion	500 c.c.
Bacto-peptone	10 grams
Sodium chloride	5 “
Agar (Difco granular)	15 “
Distilled water up to	1,000 c.c.

p.H 6.8

Medium 2

Fresh beef infusion	500 c.c.
Bacto-peptone	10 grams
Sodium chloride	5 “
Agar (Difco granular)	15 “
Distilled water up to	1,000 c.c.

p.H 7.0

Medium 3

Fresh beef infusion	500 c.c.
Bacto-peptone	10 grams
Agar (Difco granular)	15 “
Glycerin	10 c.c.
Distilled water up to	1,000 c.c.

p.H 6.7

Medium 4

Fresh beef infusion	500 c.c.
Bacto-peptone	10 grams
Agar (Difco granular)	15 “
Glycerin	10 c.c.
Distilled water up to	1,000 c.c.

p.H 7.1

Medium 5

Difco beef extract	3 grams
Bacto-peptone	10 “
Glycerin	5 “
Agar (Difco granular)	15 “
Distilled water up to	1,000 c.c.

p.H 6.8

Medium 6

Difco beef extract	3 grams
Bacto-peptone	10 “
Glycerin	5 “
Agar (Difco granular)	15 “
Distilled water up to	1,000 c.c.

p.H 7.3

Medium 7

Difco beef extract	3 grams
Bacto-peptone	10 “
Sodium chloride	5 “
Agar (Difco granular)	15 “
Distilled water up to	1,000 c.c.

p.H 6.8

Medium 8

Difco beef extract	3 grams
Bacto-peptone	10 “
Sodium chloride	5 “
Agar (Difco granular)	15 “
Distilled water up to	1,000 c.c.

p.H 7.0

Medium 9

Fresh beef liver infusion	500 c.c.
Bacto-peptone	10 grams
Sodium chloride	5 “
Agar (Difco granular)	15 “
Distilled water up to	1,000 c.c.

p.H 6.9

Medium 10

Fresh beef liver infusion	500 c.c.
Bacto-peptone	10 grams
Sodium chloride	5 “
Agar (Difco granular)	15 “
Distilled water up to	1,000 c.c.

p.H 7.1

Medium 11

Fresh beef liver infusion	500 c.c.
Bacto-peptone	10 grams
Glycerin	5 c.c.
Agar (Difco granular)	15 grams
Distilled water up to	1,000 c.c.

p.H 6.8

Medium 12

Fresh beef liver infusion	500 c.c.
Bacto-peptone	10 grams
Glycerin	5 c.c.
Agar (Difco granular)	15 grams
Distilled water up to	1,000 c.c.

p.H 7.2

Medium 13

Meat extract (Difco beef)	3 grams
Peptone (Bacto)	10 “
Agar (Difco granular)	15 “
Distilled water up to	1,000 c.c.

p.H 7.1

Medium 14

Meat extract (Difco beef)	3 grams
Bacto-peptone	10 “
Sodium chloride	5 “
Agar (Difco granular)	15 “
Distilled water up to	1,000 c.c.

p.H 7.7

Medium 15

Fresh beef infusion	500 c.c.
Bacto-peptone	10 grams
Agar (Difco granular)	15 “
Sodium chloride	5 “
Distilled water up to	1,000 c.c.

p.H 7.6

S. PULLORUM

Strain 8			Strain 9			Strain 15		
1st Test	2nd Test	3rd Test	1st Test	2nd Test	3rd Test	1st Test	2nd Test	3rd Test
Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium
1	4	3	10	3	1	1	3	2
2	3	4	3	1	3	2	2	1
3	1	1	9	4	10	4	4	3
8	2	5	4	9	9	3	1	4
10	5	15	1	2	4	8	8	14
4	7	8	2	5	2	5	7	15
5	6	6	8	10	8	10	5	7
6	15	7	6	8	11	15	14	8
14	9	10	5	6	7	14	9	13
13	10	9	11	11	15	7	6	10
12	14	11	14	14	5	13	11	9
7	11	12	13	15	12	9	15	12
9	13	13	12	12	13	12	13	11
11	12		15	13	6	11	12	6

Most luxuriant growths recorded in first line, second best in second line, and so on down to lowest growths in last line.

RESULTS OF AGGLUTINATION OF STRAINS GROWN ON THE FIFTEEN MEDIA

One positive and one negative sera set up with antigens prepared by mixing strains 8, 9 and 15 from the different media. Positive serum set up in dilutions of 1–25, 1–50, 1–100, 1–250, 1–50 and 1–1000. Negative serum set up in dilutions of 1–25 and 1–50.

	Positive Serum						Negative Serum	
Medium	1–25	1–50	1–100	1–250	1–500	1–1000	1–25	1–50
1	+	+	+	–	–	–	P	–
2	+	+	+	P	–	–	P	–
2	+	+	+	P	–	–	P	–
3	+	+	+	+	P	–	+	P
4	+	+	+	+	P	–	+	P
5	+	+	+	+	P	–	P	–
6	+	+	+	P	–	–	P	–
7	+	+	+	P	P	–	–	–
8	+	+	+	P	–	–	+	P
9	+	+	+	+	P	–	P	–
10	+	+	+	P	–	–	+	P
11	+	+	+	P'	–	–	+	P
12	+	+	+	P	–	–	+	P
+	+	+	+	P	P	–	+	P

LICE (MALLOPHAGA) ON POULTRY

J. S. Glover, B.V.Sc

A request was received from the entomologist in charge of one of the Dominion entomological laboratories to investigate the so-called merits of a proprietary preparation sold for the eradication of lice and other vermin on poultry. The directions for its use and the claims made regarding the efficacy of the product are as follows:—"For the first few days drop two tablets into each gallon of water, which should be changed daily. After eight or ten days give only one tablet per gallon. *Lice Tablets* cannot injure your birds so there is no danger of their getting too much. Keep your houses well ventilated and your flock will soon be lice free, clean and healthy. Baby chicks and turkeys will never know what a louse is if given *Lice Tablets* in their water from the start. Paint your roosts with used crank case oil from your car four times a year. You can get this from any garage free if you have none of your own. Keep the roosts painted with this oil. Use *Lice Tablets* as directed and you will never be troubled with vermin again. *Lice Tablets* affect the oil glands which supply the oil to the feathers. In this way the feathers become saturated with the tonic. Lice and mites cannot live when they come in contact with *Lice Tablets*. In this way the bird is kept clean and healthy." For obvious reasons the name of the tablets is not given in this report and they are termed *Lice Tablets*.

With one's knowledge of the anatomy of birds it was hard to reconcile this claim. It is a well-known fact that poultry have no sweat glands, therefore it would be a miracle if the administration of anything in the drinking water had any effect on external parasites. However, we are told that miracles were at one time performed, so there is no reason to assume that the apparently impossible cannot occur in the present age.

It was therefore decided to give the product under investigation a fair trial, and it was used as directed. The results of the investigation are as follow:

August 15th, 1930. Fifteen adult fowl infested with lice were placed in groups of threes in five separate pens. Each pen was isolated from the others.

Pen 1. Two Barred Rock females and one White Leghorn male. Perch was soaked with used crank case oil, and the drinking water was treated with *Lice Tablets* as directed throughout the test.

Pen 2. Three Barred Rock females. Perch was not treated. *Lice Tablets* used in drinking water as directed throughout the test.

Pen 3. Two White Leghorn and one Barred Rock females. Perch was soaked with used crank case oil. Water not treated.

Pen 4. Three White Leghorn females. Perch treated with nicotine sulphate.

Pen 5. Two White Leghorn and one Barred Rock females. Neither perch or water treated. Controls.

August 23rd. Perch in pen 4 again treated with nicotine sulphate.

September 12th. Perches in pens 1 and 3 again treated with used crank case oil, and perch in pen 4 treated with nicotine sulphate.

September 16th. All birds carefully examined, commencing with pen 1 and finishing with pen 5. The findings were as follows:

Pen 1. All three birds heavily infested with lice. Infestation quite as heavy as when investigation commenced.

Pen 2. All three birds heavily infested with lice. Apparently no change since treatment was commenced.

Pen 3. Lice found on only one bird out of the three.

Pen 4. All three birds heavily infested with lice. Apparently no change since investigation commenced.

Summary. Three lice-infested birds were treated for thirty-two days with *Lice Tablets* in the drinking water as directed and their perch was treated with used crank case oil at the beginning of the test and again twenty-eight days later. There was no apparent decrease in the infestation at the end of this period.

Three lice-infested birds were treated for thirty-two days with *Lice Tablets* in the drinking water as directed. There was no apparent decrease in the infestation at the end of this period.

Three lice-infested birds were kept in a pen for thirty-two days. The perch was treated with used crank case oil on the first and twenty-eighth days. At the end of this period lice were found on only one of the three birds. Three lice-infested birds were kept in a pen for thirty-two days. The perch was treated with nicotine sulphate on the first, eighth and twenty-eighth days. At the end of the period there was no apparent decrease in the amount of infestation.

Three lice-infested fowls were kept in a pen for thirty-two days. No treatment of any description was given. The infestation at the end of the period was apparently the same as at the beginning.

During the thirty-two day period all of the birds spent a considerable amount of time on the perches, and when observed at night they would all be perching. Strict cleanliness was observed throughout the test.

Most of the birds were in better health at the end than at the beginning of the test.

The birds whose water contained the *Lice Tablets* consumed about twice as much of the water as the birds whose drinking water was not treated. At no time during the test were the birds handled, and there was no opportunity for the lice to be transferred from one pen to the other.

It is generally believed that the fumes from nicotine sulphate are of great benefit in the eradication of external vermin on fowl. Apparently beneficial results are only obtained if the perches are treated with it a short time before the birds go to roost and if it has not been exposed to the air to any great extent before being used. Further investigations will therefore be conducted before coming to any definite conclusion as to the merits of nicotine sulphate. One can, however, conclude that the tablets are worthless.

IMMUNIZATION AGAINST FOWL-POX

By J. S. Glover, B.V.Sc.

Fowl-pox, or avian diphtheria, has for years been recognized by the poultrymen of Ontario as one of the greatest scourges with which they have to contend. Occurring as it does most frequently during the "laying" months it results not only in a heavy mortality but also in greatly decreased egg production.

Realizing the economic importance of avian diphtheria attempts have been made from time to time to produce immunity to the disease and also to effect a cure in infected birds by inoculation with a suspension of the virus. Up until the last few years inoculation experiments by various investigators have not proved entirely satisfactory; but a review of literature published on the subject during the past year or two indicated that fowl could be actively immunized against the disease. Briefly, the reports show that (1) The subcutaneous method does not immunize in a large percentage of cases, and it has an undesirable effect on growth. (2) The intravenous method is slow, is more or less satisfactory in regard to immunization, but also has an undesirable effect on growth. (3) The scarification method is apparently successful in producing active immunity, but is accompanied by excessive systemic disturbance. (4) The follicular method is satisfactory and has little effect on growth. (5) The "stick" method, introduced by Johnson[1], successfully immunizes and has little effect on growth.

With the co-operation of the poultry department of the Ontario Agricultural College it was therefore decided to conduct investigations in connection with the Johnson stick method, and the following report is confined to our activities during the past summer and fall.

One of the most important factors in immunization against fowl-pox is the virulence of the ground scab. This was emphasized by Bottorrf[2] to the writer, and it was decided to employ ground scab prepared by him for the propagation of part of the virus to be used, and another equally recommended ground scab for the propagation of the remainder of the virus required in the investigation.

On July 18th the combs of nine White Leghorn cockerels were scarified and painted with an aqueous suspension of ground scab procured from New Hampshire. A good growth was produced and the first crop of scabs was taken off fifteen days later. These were kept covered at room temperature for forty-eight hours and then ground up as finely as was possible with available equipment, tubed and corked and put in the refrigerator. This batch was labelled "virus A." The second crop of scabs (good growth) was taken off four days later, treated in the same manner as the first crop, and labelled "virus B." No birds died from the effects of the propagation or as the result of the removal of the scabs.

On July 22nd twelve White Leghorn cockerels were used for the propagation of more virus containing scab, the ground scab used being procured from another laboratory. Fifteen days later a good growth of scab was removed, treated as "A" and "B" and designated "virus C." The second growth was taken off seven days later, dried, tubed and corked, and labelled "virus D." These twelve birds were heavily infested with roundworms and tapeworms, and several of them were either destroyed before the second crop was taken off or a few days later. Ground scab from two other laboratories also were used in the investigation and were labelled "virus E" and "virus F."

With the exception of one pen in one flock all birds were vaccinated in the right leg by the Johnson stick method. By this method the difficulty of finding open follicles in birds that have moulted some time previously does not enter into the case as it quite often does in the follicular procedure, and it is much quicker.

The site for inoculation is external and posterior to the proximal end of the tibia. After the vaccination of a few birds one realizes the advisability of using this place. The area is devoid of feathers and thus readily accessible; there is no danger of blunting the point of the knife against a feather shaft; this part of the bird's anatomy is a firm place for a stab; and when examining for "take" scabs, the "take," if present, is easily found. As recommended, we used sharp pointed scalpels which were wrapped with adhesive tape so as to leave an exposed point of 3/32 of an inch. It was thus possible to make a definite break in the skin without danger of going too deeply.

The ground scab (vira A, B, C and D) were mixed with distilled water in the proportion of 200 milligrams of ground scab to 25 c.c. of water just before being used. This proportion of scab is higher than that used which was obtained from the other laboratories owing to the fact that available equipment would not permit ours to be ground up so finely. Results, however, indicated that the proportion used was satisfactory. All that the operator had to do then was to dip the scalpel in the aqueous suspension of scab before sticking each bird.

Following are some of the records of vaccination with the various batches of scab.

Flock 1, Pen 1. Four hundred and eight White Leghorn and Barred Rock pullets vaccinated in right leg, stick method. Age of birds 3½ to 5 months. "E virus" used. Birds examined five days later. "Takes" observed on all. No systematic disturbance had been noticed. Birds were feeding well and some were laying. Seventeen days after vaccination the birds were again examined. Takes were well in evidence at this time. Scabs, which were drying up, were from one-third to one-half inch in diameter. The birds at this time apeared all right, but from the tenth to the fourteenth day there was no gain in weight and the birds had not been feeding quite as well. Egg production (which had only just commenced) had not fallen off. Twenty-seven days after vaccination the pen was again examined. All scabs had fallen off and it was difficult to find any evidence of vaccination. All birds apparently healthy. At this time twelve birds in the pen were vaccinated in the left leg with "virus B" and leg banded. Another pen of susceptible birds were also vaccinated with the same suspension. Both lots of birds were examined at frequent intervals up to fifteen days for "takes." None were found on those vaccinated the second time, whilst "takes" were well in evidence on the others. This indicated that immunity to fowl-pox had been produced in the first pen.

Flock 1, Pen 2. Eight hundred pullets and cockerels, three and one-half to five months old, various breeds vaccinated with "A virus." Birds examined seven and thirteen days later. "Takes" found in all examined, and were one-third to one-half inch in diameter on the second occasion. No sickness had been observed, but there was no gain in weight for a few days after the tenth day. Thirty-one days after the first vaccination ten of the birds were vaccinated on the left leg with "virus A." No "takes" resulted, although susceptible birds vaccinated at the same time with the same batch of scab suspension showed good "takes" ten days later.

Flock 2, Pen 1. Seven hundred and fifty birds, three and one-half to six months old, vaccinated with "E virus." A few birds in the flock escaped vaccination and it was reported that a few died later of fowl-pox. It could not be determined whether those that died were the ones that escaped but it was presumed so. The manager reported that seventy-five per cent. of the birds in the flock showed evidence of a "take" ten days after vaccination. It was not convenient for us to examine this flock at this time or it is quite likely that the percentage of takes recorded would have been higher. The younger birds in the flock showed a slight loss of appetite about one week after vaccination. Four days later it had returned to normal. Birds in fifty per cent. egg production when vaccinated dropped to three per cent. ten days to two weeks later. This drop continued for about two months. No birds in this flock were tested for immunity.

Flock 3. About fourteen hundred White Leghorn and Barred Rock pullets and cockerels vaccinated with A, B, C, D and F vira. Two weeks after vaccination takes were observed on all birds examined in each pen, the scabs being from one-third to one-half inch in diameter. About seven days after vaccination the appetite decreased and all the birds that were laying commenced to moult a week later with a consequent decrease in egg production. This decrease continued for about six weeks. Vaccination of six birds in each of six pens about seven weeks after the first vaccination did not result in a "take" on any of them.

Flock 4. About thirteen hundred and seventy White Leghorn pullets and cockerels vaccinated with vira A, B, C and D. Frequent examinations for "takes" were made up to eighteen days later. None were found excepting on ten birds that were introduced into the flock the day the flock was vaccinated. This flock had had a severe attack of fowl-pox six months previously and the survivors were apparently immune to the disease at the time of vaccination.

Flock 5. Two thousand, seven hundred and fifty White Leghorn pullets and cockerels vaccinated with vira A, B, C and D. All birds examined ten days later in each pen showed good take scabs. Cockerels were "off feed" from the 10th to the 14th day, but afterwards were all right. Pullets in lay showed a slump in egg production for about a week, commencing about the ninth day after vaccination. Three and a half months after being vaccinated some of the birds were vaccinated in the other leg with virus C, and six unvaccinated birds from another flock were done at the same time with the same suspension. "Takes" later developed on the latter birds but not on the former.

Numerous other birds were vaccinated by us during the season. These were in flocks at widely different points, and enough were under observation to warrant us in arriving at a few definite conclusions. The results obtained were more or less similar to those previously quoted in this report and a record of them here would only mean endless repetition. An exception, however, occurred in one flock of about 800 birds. These were of several breeds, pullets and cockerels, two to four months old. Coccidiosis had attacked the flock, and the birds on the whole were unthrifty. Under ordinary circumstances the flock would not have been vaccinated, but the manager was desirous of seeing the effect. Virus A was used. Good "takes" were observed on all that were examined about two weeks later, and after this the flock mortality was unusually high.

The following questionnaire was sent out in December to all the owners whose flocks were under investigation:

About what was the percentage of "takes" among the vaccinated birds?
Did any birds die from the effects of the vaccination?

Was any illness noticed in the flock after vaccination?
If so, how many days after the birds were vaccinated?
What was the effect on egg production?
At what time was this first noticed, and for how long did it continue?
Have any birds developed colds, roup or fowl-pox since being vaccinated?
Did any of the birds that were vaccinated the second time show any evidence of a "take" after the second vaccination?

As might be expected the answers to some of the questions were not in complete agreement. Unfortunately, some of the owners did not reply, but enough sent in their answers to make it possible for us to analyze the results.

Most agreed that "takes" were found on all birds examined and those of us who were conducting the work found "take" scabs on all that we examined. They were largest and most prominent from the tenth to the fifteenth day.

The only direct evidence of vaccination resulting in death was in the flock of birds affected with coccidiosis.

In birds three and a half to four and a half months old the only evidence of systemic disturbance was a loss of appetite for a few days commencing seven to ten days after vaccination. Pullets that were laying at the time of vaccination showed a decided decrease in egg production. This decrease commenced seven to fourteen days after vaccination and if it was accompanied by a moult or a partial moult continued for six weeks to two months.

The query as to whether colds, roup or fowl-pox had developed after vaccination was prompted by reports in November that vaccination was apparently resulting in immunity to colds and roup. It is generally agreed that fowl-pox vaccination will not immunize against roup or colds, but after the early reports were received it was suggested that perhaps the vaccination had built up the birds' resistance with the result that they were not so susceptible to these diseases. The suggestion was not unfeasible, but examination of the reports received later showed that several flocks had, as in previous years, developed colds, although none reported cases of roup.

No birds vaccinated the second time showed any evidence of a "take." Controls (susceptible birds) vaccinated at the same time with the same scab emulsion always showed good "take" scabs.

The question was raised by some as to whether vaccination would have any effect on the agglutinable properties of the blood of pullorum carriers. To settle this question to the satisfaction of all concerned a pen of ten Barred Rocks, 8 pullets and 2 cockerels, all in good condition, were each given 1 c.c. of a fairly heavy saline suspension of *S. pullorum* by the intravenous route. The suspension was not killed or attenuated. Ten days later all birds were bled, and immediately afterwards five of them (4 pullets and 1 cockerel) were vaccinated in the right leg with "C" virus suspension. The sera were set up with pullorum antigen in dilutions of 1–10, 1–25, 1–50, 1–100, 1–250, 1–500 and 1–1000, and read 48 hours later.

Number	1–10	1–25	1–50	1–100	1–250	1–500	1–1000
662	+	+	+	+	Slight	Slight	—
674	+	+	+	+	+	+	P
654	+	+	+	+	P	Slight	—
670	+	+	+	+	+	+	P
*Rooster	+	+	+	+	+	P	Slight
1	+	+	+	+	Slight	—	—
2	+	+	+	+	+	+	P
3	+	+	+	+	P	—	—
4	+	+	+	+	P	Slight	—
5 Rooster	+	+	+	+	+	+	—

The first five birds were vaccinated just after bleeding, whilst the other five were not.

Nine days after the first bleeding the vaccinated birds were examined for takes. Good "take" scabs were observed on all. The ten birds were bled and the sera set up as before. The following results were recorded after 48 hours incubation at 37° C.

Number	1–10	1–25	1–50	1–100	1–250	1–500	1–1000	
662	+	+	+	+	P	–	–	Vaccinated
674	+	+	+	+	+	+	+	
654	+	+	+	+	+	–	–	
670	+	+	+	+	+	P	–	
*Rooster	+	+	+	+	P	–	–	
1	+	+	+	+	+	P	–	Not vaccinated
2	+	+	+	+	P	–	–	
3	+	+	+	+	+	+	–	
4	+	+	+	+	+	P	P	
5 Rooster	+	+	+	+	P	–	–	

No apparent difference in agglutination titre between the two groups.

The birds were bled for the third time seven days later and agglutination results were as follow:

Number	1–25	1–50	1–100	1–250	1–500	1–1000	
662	+	+	+	–	–	–	Vaccinated
674	+	+	+	+	P	–	
654	+	+	P	–	–	–	
670	+	+	+	P	–	–	
* Rooster	+	+	+	–	–	–	
1	+	+	+	–	–	–	Not vaccinated
2	+	+	+	+	–	–	
3	+	+	+	+	P	–	
4	+	+	+	–	–	–	
5 Rooster	+	+	P	–	–	–	

No apparent difference between the two groups.

One week later the birds were again bled, the sera set up, and readings made at the end of 48 hours with the following results:

Number	1–25	1–50	1–100	1–250	1–500	1–1000	
662	+	+	+	P	–	–	Vaccinated
674	+	+	+	P	–	–	
654	+	+	+	–	–	–	
670	+	+	+	P	–	–	
* Rooster	+	+	+	P	–	–	
1	+	+	+	P	–	–	Not vaccinated
2	+	+	+	–	–	–	
3	+	+	+	P	–	–	
4	+	+	+	P	–	–	
5 Rooster	+	+	+	P	–	–	

No apparent difference between the two groups.

Six days later the final bleeding was made, twenty-nine days after the five birds were vaccinated. Beneath are the agglutination results:

Number	1–25	1–50	1–100	1–250	1–500	1–1000	
662	+	+	+	P	–	–	Vaccinated
674	+	+	+	P	–	–	
654	+	P	P	–	–	–	
670	+	+	+	–	–	–	
*Rooster	+	P	P	–	–	–	
1	+	P	P	–	–	–	Not vaccinated
2	+	+	P	–	–	–	
3	+	+	+	–	–	–	
4	+	+	+	–	–	–	
5 Rooster	+	+	+	P	–	–	

Both groups showing about the same reactions.

None of the pullets had commenced to lay before the end of this test, and during the whole time no difference was observed in the general health and vigour of any of the birds. It is interesting to note that both the vaccinated and unvaccinated groups were in the same house and run all the time, and contrary to some reports the unvaccinated group did not contract fowl-pox.

The results of this test would indicate that vaccination with fowl-pox virus has no effect on the agglutinable properties of the blood of pullorum carriers, even at the time when the greatest systemic disturbances are present.

The time and labour elements are of importance when a large flock is to be vaccinated. We adopted various schemes to "speed up" the work, and in some instances recorded the time it took us to do a pen. It was found that the greatest number of birds were vaccinated in a given time when two or three men caught the birds, handed them to two others who would stand one on each side of the vaccinator and expose the part for him in which to make the stick. By this means we would vaccinate eight hundred birds in an hour.

Whilst our investigations are by no means completed and are at the present time being continued we are able to arrive at the following conclusions on the work already done:

If the ground scab is virulent and freshly mixed with sterile water it will result in a definite "take" in susceptible birds.

The "take" is best in evidence at about two weeks after vaccination.

The flock should be healthy when vaccinated.

If vaccinated a month before the birds are expected to come into lay little systemic disturbance occurs.

Vaccination of laying birds results in a decided decrease in egg production which will persist for some considerable time.

The stick method is quick and effective.

Fowl-pox vaccination by this method has no effect on the production of agglutinins in carriers of pullorum disease.

Transferrence of fowl-pox from vaccinated to unvaccinated susceptible birds is apparently not common.

First and second crop scabs were equally virulent.

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NUTRITIONAL DISEASE

By J. S. Glover, B.V.Sc.

During the past summer and fall our attention was drawn to several flocks in which the mortality rate was extremely high.

The owners of the flocks were greatly alarmed, not only on account of the many deaths, but also because they were confronted with a condition with which they were entirely unfamiliar and were therefore at a loss to know how to combat with the situation.

In August three dead Barred Rock pullets were left at the laboratory with a note saying that several birds in the flock had recently died. Routine examination of these birds showed that they were emaciated, and deposits of urates of sodium were present on the liver, pericardium and peritoneum. A diagnosis of visceral gout was made and instructions sent to the owner regarding the diet of the flock. Six days later two more dead pullets were received from the same place. These birds also were emaciated. The only abnormalities present were a viscid discharge from the nose, and caseous patches in the mouth and pharynx. One could not distinguish this condition from roup. The following day the owner brought in another pullet which also showed "roupy" lesions, emaciation and swollen kidneys. At the same time he stated that several birds were dying each day, and several that he had opened showed whitish deposits on the surface of the liver, peritoneum, and pericardium, whilst many others in the flock were exhibiting dullness, lassitude and symptoms of roup. It was therefore decided to visit the place that evening and make a careful examination of the flock and their surroundings. The puzzling feature of the case was that according to the owner the diet of the birds was all right and included an adequate supply of green feed.

The visit to this poultry farm is typical of several. The birds were separated into five different groups, and it was impossible for any group to come into contact with any other. In each group it was noticed that the majority of the birds were unthrifty and listless. Any that were caught and examined were found to be extremely thin. Enquiries regarding the diet brought forth the information that the green feed consisted entirely of range grass. It was obvious that this was entirely inadequate. We had experienced in that part of Ontario an extremely dry summer with the result that the grass was anything but green. The condition of the flock as a whole and the condition of the range immediately pointed to nutritional disease as being the cause of the excessive losses. Owing to the extremely dry summer the green feed on the range was deficient in vitamins, especially vitamin A. It was therefore suggested that the diet of the flock be supplemented by a quart of cod liver oil to each one hundred pounds of mash and also sprouted oats. The result of this change in the diet was that deaths in the flock discontinued in a week and the general health of the birds improved.

This report on one flock is typical of several which were drawn to our notice during August and September. The dry summer had resulted in an inadequate amount of vitamin A in the range green feed, and when this shortage was corrected by the addition of cod liver oil and succulent green feed, deaths ceased and recoveries among the affected birds took place.

COMPARATIVE RESULTS OF DIFFERENT PERIODS OF INCUBATION AND DIFFERENT INCUBATION TEMPERATURES IN CONNECTION WITH THE AGGLUTINATION TEST FOR CONTAGIOUS ABORTION

By J. S. Glover, B.V.Sc.

At the request of several veterinarians one hundred and thirty-four samples of cattle sera submitted for the agglutination test for *A. abortus* infection were set up in duplicate in dilutions of 1:10, 1:25, 1:50 and 1:100, and the results recorded at twenty-four hours and forty-eight hours incubation at room temperature and at 37.5° C.

Complete or partial agglutination in the 1:100 dilution are recorded as positive.

No agglutination in the 1:100 dilution, complete or partial in the 1:50 dilution or complete only in the 1:25 dilution are recorded as suspicious or doubtful.

No agglutination in the 1:100 or 1:50 dilutions, partial or none in the 1:25 dilution, and complete, partial or none in the 1:10 dilution are designated negative.

The number of samples found to be in agreement in all dilutions at both temperatures at twenty-four hours was one hundred and fourteen.

One hundred and twenty-five samples were in agreement in all dilutions at both temperatures at forty-eight hours.

At both temperatures at both the twenty-four and forty-eight hour readings ninety-one samples were in agreement.

The following is a summary of the results recorded at both observations:

	24 hours at room temperature	24 hours at 37.5° C.	24 hours at room temperature	48 hours at 37.5° C.
Number of samples classed as negative..............	74	76	56	62
Number of samples classed as suspicious or doubtful..	30	30	41	36
Number of samples classed as positive..............	30	28	37	36

The above observations agree with other workers that 24 hours at 37.5° C. or at room temperature results in too many samples being recorded as negative. It must be noted that "room" temperature as recorded here was the temperature of the laboratory during the summer months and was extremely variable. One can infer, however, from these results that if the room is maintained at summer heat and the "set ups" kept therein for forty-eight hours, complete agglutination in the 1:100 dilution will occur with the positive samples.

COMPARISON OF TUBE AND RAPID AGGLUTINATION TESTS FOR THE DETECTION OF *A. ABORTUS* REACTORS

By J. S. Glover, B.V.Sc.

It is doubtful if any phase of serological studies during the past ten years has been the subject of more contention than has that of comparative tests between tube and rapid agglutination methods. The tube method has for long been considered the standard, its only acknowledged disadvantage being the length of time that must elapse before a reading can be made. No serologist could honestly claim that the results obtained by the method are irrefutable, yet all admit that no other method of accurately detecting specific agglutinins is better. The only claim made for the rapid agglutination method is that it does away with the "time" element.

It is not generally known, excepting by those workers who have compared the two methods, that the term "rapid" does not refer to the expediency of the test as far as the laboratory worker is concerned. In conducting any comparable rapid test for contagious abortion infection, for instance, more time is consumed by the worker in doing the so-called rapid test than is necessary for the tube test. The term "rapid" simply indicates that instead of waiting forty-eight hours for readings by the tube method results can be obtained within a few minutes by the rapid method after the clear serum has separated from the clotted blood. This point has not been sufficiently emphasized, and has led to a misconception on the part of those not versed in serology.

Numerous attempts to prepare a satisfactory antigen for the rapid test that would give comparable results to the tube test have been made from time to time with varying degrees of success. The procedure outlined by Huddleson and Abell: for the preparation of antigen and the carrying out of the test seems to have met with greater favour than any other method. Briefly their method consisted of washing off with twelve per cent. phenolized sodium chloride solution a seventy-two hour liver agar growth of a suitable strain of *A. abortus*. After filtration through absorbent cotton O.01 c.c. of a saturated aqueous solution of gentian violet is added to each 100 c.c. of antigen. The antigen is heated to slow boiling and the boiling continued for ten minutes. It is then again filtered, cooled rapidly, and adjusted to a p.H of 6.8. Standardization with negative and positive sera, whose titre has previously been determined by the tube method, is the next step.

In the main we followed the technique as described, but deviated from the procedure in certain instances. For example, in the tests recorded in group 1 of this report the antigen was not nearly so dense as recommended, and after several preliminary tests we adopted 0.06 c.c. as the amount of this batch to be added to the various amounts of serum. In the tests recorded in group 2 we used 0.03 c.c. of antigen which was shown by our preliminary tests to be the suitable amount.

Although it will be seen that the two tests do not agree entirely, yet it must be admitted that there is fairly close relation. It must be remembered that the tube test, while accepted as the standard, is not by any means accurate in every instance. Is it not reasonable, therefore, to assume that where a difference occurs the error is quite as likely, in some instances, to lie with the interpretation according to the tube test as with the results obtained by the rapid method?

It will be noticed in the comparative results of the two hundred and four samples listed in the following groups that where a difference is recorded the difference is comparatively slight. In other words no sample was recorded as positive by one test and negative by the other.

Unfortunately, it has not been our privilege up to the present time to become acquainted with the history of many of the reactors, so that it would be futile to offer an opinion as to the degree of reliability of results obtained by either method in the following tests. The relationship, however, in the results from the two tests is sufficiently close to warrant in the future more comparative tests being made and the procuring of as many histories as possible of positive and doubtful reactors.

Group 1.—Eighty-nine samples were compared, using 0.06 c.c. of special concentrated antigen for the rapid test. In this group there was complete agreement according to our interpretation of results between the two tests in seventy-six, or 85.4 per cent. Of the remaining thirteen in which there was not complete agreement between the two tests seven were classed as doubtful by the tube test and negative by the rapid method; three were negative by the tube method and doubtful by the rapid; and one doubtful by the tube and positive by the rapid test.

Group 2.—This group of one hundred and fifteen samples was compared, using 0.03 c.c. of special antigen for the rapid test. Complete agreement occurred between the two methods in one hundred and two, or 88.7 per cent. Of the remaining thirteen samples five were negative by the tube test and doubtful by the rapid; five were doubtful by the tube and negative by the rapid test; and three were classed as positive by the tube test and doubtful by the rapid method. Sixteen of the samples were from steers ranging in age from five months up to twenty-five months. Three of these, the youngest of which was sixteen months old, were positive.

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TENTH
ANNUAL REPORT
OF THE
MINIMUM WAGE BOARD
1930

PRINTED BY ORDER OF
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1931

TO HIS HONOUR WILLIAM D. ROSS, ESQ.,
Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOUR:

The undersigned has the honour to present to Your Honour the Tenth Annual Report of the Minimum Wage Board of Ontario for the year 1930.

Respectfully submitted,

J. D. MONTEITH,
Minister of Public Works and Labour.

THE HONOURABLE J. D. MONTEITH,
Minister of Labour,
Parliament Buildings, Toronto.

SIR:—I have the honour to submit herewith the Tenth Annual Report of the Minimum Wage Board.

I have the honour to be,
Sir,
Your obedient servant,
J. W. MACMILLAN,
Chairman.

ANNUAL REPORT

MINIMUM WAGE BOARD, 1930

This report marks the completion of ten years' work. When the Board was appointed in 1920, the minimum wage laws were in operation in Canada only in the western provinces. To-day the entire Dominion is covered, except Prince Edward Island, which, with its slight industrialization, scarcely needs such a law. Thus, Canada has drawn into alignment with the other democracies of the British Empire, as Great Britain, Australia, New Zealand and South Africa all possess such laws, enforcing them both as to male and female labour.

These ten years have carried Ontario through one depression, followed by some years of business expansion, and brought us into a second depression. The statistical records of the Board reflect these changes.

During the earlier part of this ten-year period the Board was busy studying its problem and issuing its orders, so that the records gathered at that time are not so complete as in more recent years. We have chosen factory employment from 1926 to 1930, inclusive, as a section at once definite, compact and typical of general conditions, and herewith present some figures and facts which tell the story of four years of rapid advance followed by a year of recession. The picture so shown may be taken as exceptionally full and accurate.

Female factory workers in 1926	43,242
" " " 1927	45,416
" " " 1928	50,118
" " " 1929	53,461
" " " 1930	50,069

Thus employment has fallen 6.7 per cent. during the last year. Yet it is as high in 1930 as in 1928, and four per cent. higher than in the average of the four years 1926-1929.

However, these figures do not tell the full story of unemployment, as many whose names are reported on the pay rolls have been working short time. No statistics are obtainable as to the proportion of full time which they have been working.

In detail, girls under eighteen have been dropped in larger proportion than adults. As between these two classes this is the better arrangement, for fewer young girls are away from home.

The proportion of married women at work is larger. This is in line with a tendency which has been evident in recent years. Doubtless, it also shows that some wives have gone to work when their husband's jobs failed. The women's trades, on the whole, suffer less than the men's trades in times of depression.

Wage levels have been maintained. Indeed, more gains than losses are reported. This is quite surprising in view of the fact that wage rates have heretofore fallen in times of unemployment. We believe that this is in part due to the enforcement of our orders, in part to the desire of employers to pay decent wages, and in part to their desire to support the buying power of the general public, a consideration which the Board has always stressed. If the depression should end without wage levels having been lowered the workers will be fortunate and the general resumption of business activity will be accelerated.

COST OF LIVING BUDGET

The budget for an independent working woman in Toronto, as revised in October, 1930, representing the lowest wage upon which she can support herself, is as follows:

October, 1930

Item		Cost per year
Board and lodging at $7.00 per week		$364 00
CLOTHING:		
Footwear and repairs, 3 pairs $5.00, $4.00, $4.00; bedroom slippers, $1.25, rubbers or goloshes, $3.00; repairs, $2.00	$19 25	
Stockings	10 00	
Underwear	8 50	
Nightgowns	4 00	
Costume slips and blouses	5 00	
Corsets and brassieres	5 50	
Kimona (two years)	1 00	
Hats	11 00	
Suit (half cost to wear two years) or skirt (one year, $5.00) and light coat (two years, $12.50)	11 25	
Winter coat to wear two years	8 25	
Winter dresses	10 00	
Summer dresses, two or three	12 00	
Shirt waists	8 50	
Sweater (two years)	2 00	
Aprons	2 50	
Handkerchiefs	2 00	
Gloves	4 00	
Scarf	1 00	
Umbrella, to last two years	1 25	
Total expense for clothing		$127 00
SUNDRIES:		
Laundry	$39 00	
Doctor, dentist, optician	20 00	
Car fare	39 00	
Reading matter	6 00	
Postage and stationery	5 00	
Recreation and amusement	23 00	
Church and charity	10 00	
Incidentals, including tooth brush, comb, soap, toothpaste, talcum powder, nail file, shoe polish, hand lotion, pins, needles, thread, whisk, shoe laces, etc	20 00	
Total expense for sundries		$162 00
Total expenses for year		$653 00
Board and lodging per week	$7 00	
Clothing per week	2 44	
Sundries per week	3 06	
Total per week		$12 50

COMPARATIVE STATISTICS

The Board collects each year reports of wages and hours. During the first years of its operations it was able to include in this statement the returns of each successive year. Now, however, with ten years of activity behind us, we are forced to be content with less exhaustive statistics. It seems best to make the comparison between the first collection of returns and the latest. The two columns thus show, with two exceptions, wages and hours before the order went into force in contrast with the year 1930. The two exceptions are in the food and paper trades, each of which was subjected to a reclassification in 1925, which made it impracticable to exhibit such a contrast. Orders 34 (food) and 39 (paper) therefore show the two years 1926 and 1930. In these two cases there is no contrast between "before and after taking."

ORDER NO. 31

This order deals with laundries, dye-works and dry-cleaning establishments. It incorporates and supersedes Orders 1, 4 and 5.

In the City of Toronto:

	1921	1930
Number of firms reporting	33	61
Total number of female employees	706	1,763
Over 18 years	638	1,628
Under 18 years	68	135
Total weekly wages	$8,888 94	$24,423 39
Over 18 years	8,253 94	22,961 56
Under 18 years	635 00	1,461 83
Average weekly wage	12 59	13 85
Over 18 years	12 93	14 10
Under 18 years	9 33	10 83
Percentage of young girls under 18 years	9.6	7.6
Percentage of married women	....	32.3
Average hours worked per week	44.8	46.5

Weekly rate of wages:	1921	1930
Under $7 00	1	1
7– 8	1	1
8– 9	8	..
9–10	33	30
10–11	65	79
11–12	72	108
12–13	168	647
13–14	106	273
14–15	89	170
15–16	68	180
16–18	51	103
18–20	20	69
20–22	16	44
22–up	8	58
Total	706	1,763

In cities of more than 30,000 population, excepting Toronto:

	1921	1930
Number of firms reporting	26	52
Total number of female employees	412	648
Over 18 years	359	598
Under 18 years	53	54
Total weekly wages	$4,825 40	$8,531 32
Over 18 years	4,322 60	8,068 86
Under 18 years	502 80	462 46

Average weekly wages	$11 71	$13 16
Over 18 years	12 04	13 49
Under 18 years	9 48	9 25
Percentage of young girls under 18	12.8	7.7
Percentage of married women	....	26.8
Average hours worked per week	47.2	48.4
Weekly rate of wages:	1921	1930
Under $7 00	7	....
7– 8	13	8
8– 9	47	18
9–10	50	5
10–11	54	47
11–12	46	21
12–13	56	258
13–14	43	118
14–15	24	46
15–16	30	42
16–18	14	37
18–20	16	15
20–22	4	17
22–up	8	16
Total	412	648

In places having less than 30,000 population:

	1921	1930
Number of firms reporting	33	65
Total number of female employees	317	613
Over 18 years	228	518
Under	89	95
Total weekly wages	$3,395 56	$7,318 29
Over 18 years	2,594 96	6,389 79
Under 18 years	800 60	928 50
Average weekly wages	10 71	11 94
Over 18 years	11 38	12 38
Under 18 years	8 99	9 77
Percentage of young girls under 18	28 07	15.5
Percentage of married women	....	23.2
Average hours worked per week	50.6	49.5
Weekly rate of wages:	1921	1930
Under $7 00	6	..
7– 8	20	12
8– 9	70	21
9–10	39	55
10–11	39	92
11–12	32	165
12–13	48	118
13–14	22	42
14–15	14	23
15–16	15	26
16–18	4	23
18–20	2	18
20–22	6	11
22–up	....	7
Total	317	613

ORDERS NOS. 3, 6, 10, 29—RETAIL STORES

These govern saleswomen in retail stores. The leading chain store systems are included as well as a number of typical stores individually operated. It is a practical impossibility to gather returns from all the retail stores, so the endeavour is made to present a picture which may be taken as generally showing the situation and trend in the several parts of the Province.

ORDER NO. 3

In the City of Toronto:

	1921	1930
Number of stores reporting	13	225
Total number of female employees	391	1,435
Over 18 years	349	1,340
Under 18 years	42	95
Total weekly wages	$5,179 50	$21,727 27
Over 18 years	4,693 50	20,668 52
Under 18 years	486 00	1,058 75
Average weekly wages	$13 25	$15 14
Over 18 years	13 44	15 42
Under 18 years	11 57	11 14
Percentage of young girls under 18	10.7	6.6
Percentage of married women	....	18.8
Average hours worked per week	49	50.5

Weekly rate of wages:	1921	1930
Under $7 00	4	....
7- 8	9	1
8- 9	....	1
9-10	9	2
10-11	15	24
11-12	46	40
12-13	109	294
13-14	53	109
14-15	46	151
15-16	35	226
16-18	30	259
18-20	14	140
20-22	10	91
22-up	11	97
Total	391	1,435

ORDER NO. 6

In cities of 30,000 or over, excepting Toronto:

	1921	1930
Number of firms reporting	26	173
Total number of female employees	1,123	2,684
Over 18 years	930	2,474
Under 18 years	193	210
Total weekly wage	$14,045 00	$38,175 05
Over 18 years	12,425 50	35,993 55
Under 18 years	1,619 50	2,181 50
Average weekly wage	12 50	14 22
Over 18 years	13 36	14 55
Under 18 years	8 39	10 39
Percentage of young girls under 18	17.1	7.8
Percentage of married women	....	15.4
Average hours worked per week	48	51.2

Weekly rate of wages:	1921	1930
Under $7 00	37	....
7- 8	31	....
8- 9	127	33
9-10	78	51
10-11	185	175
11-12	77	96
12-13	188	900
13-14	67	284
14-15	65	260
15-16	115	336
16-18	49	195
18-20	34	115
20-22	29	94
22-up	41	145
Total	1,123	2,684

Order No. 10

In towns and cities from 5,000 to 30,000 population:

	1921	1930
Number of stores reporting	103	242
Total number of female employees	1,171	2,183
Over 18 years	1,052	1,946
Under 18 years	119	237
Total weekly wages	$14,695 36	$27,640 75
Over 18 years	13,876 36	25,279 88
Under 18 years	819 00	2,360 87
Average weekly wages	12 55	12 66
Over 18 years	13 19	12 99
Under 18 years	7 72	9.96
Percentage of young girls under 18	10.1	10.8
Percentage of married women	....	8.1
Average hours worked per week	50.1	49.9

Weekly rate of wages:	1921	1930
Under $7 00	63	2
7– 8	45	18
8– 9	74	39
9–10	107	157
10–11	166	312
11–12	73	400
12–13	171	376
13–14	38	235
14–15	54	118
15–16	127	143
16–18	83	154
18–20	47	106
20–22	57	43
22–up	66	80
Total	1,171	2,183

In places under 5,000 population:

	1921	1930
Number of firms reporting	29	137
Total number of female employees	149	442
Over 18 years	140	411
Under 18 years	9	31
Total weekly wages	$1,772 65	$5,304 25
Over 18 years	1,693 15	4,993 00
Under 18 years	79 50	311 25
Average weekly wages	11 89	12 00
Over 18 years	12 09	12 15
Under 18 years	8 83	10 04
Percentage of young girls under 18	6.0	7.01
Percentage of married women	....	7.2
Average hours worked per week	52.5	52.01

Weekly rate of wages:	1921	1930
Under $7 00	11	1
7– 8	9	12
8– 9	10	21
9–10	12	45
10–11	28	95
11–12	12	49
12–13	22	67
13–14	4	50
14–15	4	32
15–16	11	26
16–18	3	10
18–20	7	14
20–22	8	9
22–up	8	11
Total	149	442

ORDER NO. 29

This order governs departmental stores in Toronto having more than 150 employees. It covers saleswomen and the mail order employees, but not the restaurant or operative employees.

	1921	1930
Number of firms reporting	3	2
Total number of female employees	2,782	4,455
Over 18 years	2,376	4,065
Under 18 years	406	390
Total weekly wages	$38,580 50	$72,210 66
Over 18 years	34,648 00	67,594 66
Under 18 years	3,932 50	4,616 00
Average weekly wages	13 86	16 21
Over 18 years	14 58	16 63
Under 18 years	9 68	11 84
Percentage of young girls under 18	14.6	8.75
Percentage of married women	....	23.4
Average hours worked per week	47	48

Weekly rate of wages:	1921	1930
Under $7 00	....	....
7– 8	10	....
8– 9	178	89
9–10	171	85
10–11	101	130
11–12	71	76
12–13	309	365
13–14	324	483
14–15	393	511
15–16	398	575
16–18	428	809
18–20	181	597
20–22	111	296
22–up	107	439
Total	2,782	4,455

ORDERS NOS. 13, 14, 15, 16—THE TEXTILE TRADES

These are the factories engaged in knitting, weaving and spinning operations:

In the City of Toronto:

	1922	1930
Number of firms reporting	31	46
Total number of female employees	1,773	2,784
Over 18 years	1,482	2,552
Under 18 years	291	232
Total weekly wages	$23,757 45	$41,464 74
Over 18 years	20,817 13	39,101 23
Under 18 years	2,940 32	2,363 51
Average weekly wages	13 39	14 89
Over 18 years	14 04	15 32
Under 18 years	10 10	10 19
Percentage of young girls under 18	16.4	8.3
Percentage of married women	....	24.1
Average hours worked per week	45.5	45.6

Weekly rate of wages:	1922	1930
Under $7 00	10	1
7– 8	14	2
8– 9	20	42
9–10	55	51
10–11	131	131
11–12	161	129
12–13	262	346
13–14	184	493
14–15	198	325
15–16	178	368
16–18	255	447
18–20	200	274
20–22	74	95
22–up	31	80
Total	1,773	2,784

ORDER NO. 14

In cities of 30,000 population or over, excepting Toronto:

	1922	1930
Number of firms reporting	20	26
Total number of female employees	2,173	4,198
Over 18 years	1,555	3,797
Under 18 years	618	401
Total weekly wages	$26,768 24	$65,633 58
Over 18 years	20,647 53	60,655 13
Under 18 years	6,220 71	4,978 45
Average weekly wages	12 32	15 63
Over 18 years	13 21	15 97
Under 18 years	10 06	12 42
Percentage of young girls under 18	28.4	9.5
Percentage of married women	....	19.5
Average hours worked per week	48.1	48.2

Weekly rate of wages:	1922	1930
Under $7 00	30	6
7– 8	77	13
8– 9	156	71
9–10	194	116
10–11	284	196
11–12	215	292
12–13	293	377
13–14	216	374
14–15	202	321
15–16	189	497
16–18	180	1,163
18–20	89	370
20–22	28	191
22–up	20	211
Total	2,173	4,189

ORDER NO. 15

Textile factories in cities and towns of from 5,000 to 30,000 population:

	1922	1930
Number of firms reporting	53	64
Total number of female employees	3,451	5,653
Over 18 years	2,540	4,748
Under 18 years	911	905
Total weekly wages	$41,539 16	$73,828 46
Over 18 years	33,557 54	63,990 97
Under 18 years	7,981 62	9,837 49
Average weekly wages	12 03	13 06
Over 18 years	13 21	13 48
Under 18 years	8 76	10 87
Percentage of young girls under 18	26.4	16.
Percentage of married women	....	20.
Average hours worked per week	49.1	50.2

Weekly rate of wages:	1922	1930
Under $7 00	94	1
7– 8	168	96
8– 9	275	192
9–10	366	499
10–11	466	594
11–12	370	939
12–13	435	729
13–14	348	659
14–15	322	623
15–16	162	296
16–18	227	625
18–20	138	184
20–22	45	99
22 up	35	117
Total	3,451	5,653

ORDER NO. 16

Textile factories in places having less than 5,000 urban population:

	1922	1930
Number of firms reporting	60	59
Total number of female employees	2,237	2,579
Over 18 years	1,813	2,168
Under 18 years	424	411
Total weekly wages	$24,982 02	$31,559 39
Over 18 years	21,622 79	27,600 60
Under 18 years	3,359 23	3,958 79
Average weekly wages	11 17	12 24
Over 18 years	11 93	12 64
Under 18 years	7 92	9 63
Percentage of young girls under 18	18.9	15.9
Percentage of married women	....	20.7
Average hours worked per week	51.4	51.8

Weekly rate of wages:	1922	1930
Under $7 00	123	16
7– 8	79	56
8– 9	217	199
9–10	249	248
10–11	392	454
11–12	302	364
12–13	211	259
13–14	347	406
14–15	86	139
15–16	73	110
16–18	78	141
18–20	47	108
20–22	19	37
22–up	14	42
Total	2,237	2,579

ORDERS NOS. 17, 18, 19, 20

The Needle Trades

These are the factories whose chief implement is the sewing machine:

Order No. 17

In the City of Toronto:

	1922	1930
Number of firms reporting	269	439
Total number of female employees	7,187	9,034
Over 18 years	6,676	8,583
Under 18 years	511	451
Total weekly wages	$97,958 39	141,142 73
Over 18 years	93,897 65	136,141 27
Under 18 years	4,060 74	5,001 46
Average weekly wages	13 63	15 62
Over 18 years	14 06	15 86
Under 18 years	7 95	11 09
Percentage of young girls under 18	7.1	4.9
Percentage of married women	....	24.1
Average hours worked per week	44.2	43.3

Weekly rate of wages:	1922	1930
Under $7 00	99	7
7– 8	72	38
8– 9	150	162
9–10	190	170
10–11	532	429
11–12	471	537
12–13	870	1,756
13–14	1,390	1,066
14–15	353	566
15–16	592	805
16–18	731	950
18–20	600	844
20–22	371	515
22–up	766	1,189
Total	7,187	9,034

Order No. 18

Needle trade factories in cities of 30,000 population or over, excepting Toronto:

	1922	1930
Number of firms reporting	51	82
Total number of female employees	874	875
Over 18 years	811	843
Under 18 years	63	32
Total weekly wages	$11,764 27	$12,568 71
Over 18 years	11,229 17	12,271 03
Under 18 years	535 10	297 68
Average weekly wages	13 46	14 36
Over 18 years	13 84	14 57
Under 18 years	8 49	9 30
Percentage of young girls under 18	7.2	3.6
Percentage of married women	....	29.02
Average hours worked per week	45.1	46.2

Weekly rate of wages:	1922	1930
Under $7 00	40	2
7– 8	39	20
8– 9	48	31
9–10	49	84
10–11	72	53
11–12	69	130
12–13	85	92
13–14	74	59
14–15	78	73
15–16	66	64
16–18	105	91
18–20	76	66
20–22	41	41
22–up	32	69
Total	874	875

ORDER NO. 19

Needle trade factories in cities and towns of from 5,000 to 30,000 population:

	1922	1930
Number of firms reporting	37	54
Total number of female employees	1,157	1,733
Over 18 years	954	1,605
Under 18 years	203	128
Total weekly wages	$13,599 09	$24,201 55
Over 18 years	12,310 26	22,975 19
Under 18 years	1,288 83	1,226 36
Average weekly wages	11 75	13 97
Over 18 years	12 90	14 31
Under 18 years	6 34	9 58
Percentage of young girls under 18	17.5	7.3
Percentage of married women	....	25.5
Average hours worked per week	46.9	46.4

Weekly rate of wages:	1922	1930
Under $7 00	83	10
7–9	97	26
8–9	95	58
9–10	89	105
10–11	118	172
11–12	95	224
12–13	105	185
13–14	91	187
14–15	109	170
15–16	57	158
16–18	158	189
18–20	33	111
20–22	15	61
22–up	12	77
Total	1,157	1,733

ORDER NO. 20

Needle trade factories in places having less than 5,000 urban population:

	1922	1930
Number of firms reporting	10	22
Total number of female employees	107	276
Over 18 years	100	262
Under 18 years	7	14
Total weekly wages	$999 09	$3,461 26
Over 18 years	938 11	3,345 84
Under 18 years	60 98	115 42
Average weekly wages	9 33	12 54
Over 18 years	9 38	12 77
Under 18 years	8 71	8 24
Percentage of young girls under 18	6.5	5.07
Percentage of married women	....	20.6
Average hours worked per week	47.5	46.2

Weekly rate of wages:	1922	1930
Under $7 00	24	2
7–8	10	17
8–9	13	30
9–10	25	27
10–11	13	30
11–12	2	39
12–13	7	31
13–14	3	30
14–15	2	11
15–16	3	12
16–18	3	16
18–20	..	12
20–22	1	12
22–up	1	7
Total	107	276

Orders Nos. 21, 22, 23, 24

These govern wages in the following trades: Drugs, chemicals, pharmaceutical or toilet preparations, dyes, inks, shoe blacking or polish, mucilage, medicines, non-corrosive acids and non-hazardous chemicals or chemical preparations.

Order No. 21

In the City of Toronto:

	1923	1930
Number of firms reporting	58	78
Total number of female employees	635	764
Over 18 years	511	690
Under 18 years	124	74
Total weekly wages	$8,169 92	$11,152 94
Over 18 years	6,824 45	10,403 81
Under 18 years	1,345 47	749 13
Average weekly wages	12 86	14 60
Over 18 years	13 35	15 08
Under 18 years	10 85	10 12
Percentage of young girls under 18	19.5	9.6
Percentage of married women	14.6	17.2
Average hours worked per week	44.3	43.9

Weekly rate of wages:	1923	1930
Under $7 00	4	..
7– 8	4	2
8– 9	13	6
9–10	26	10
10–11	79	61
11–12	50	37
12–13	154	166
13–14	86	85
14–15	101	93
15–16	49	82
16–18	35	114
18–20	14	46
20–22	7	21
22–up	13	41
Total	635	764

Order No. 22

In cities of 30,000 population or over, excepting Toronto:

	1923	1930
Number of firms reporting	25	27
Total number of female employees	213	243
Over 18 years	172	224
Under 18 years	41	19
Total weekly wages	$2,768 71	$3,497 97
Over 18 years	2,291 56	3,288 72
Under 18 years	477 15	209 25
Average weekly wages	12 99	14 39
Over 18 years	13 32	14 68
Under 18 years	11 63	11 01
Percentage of young girls under 18	19.2	7.8
Percentage of married women	8.	17.2
Average hours worked per week	45.	44.5

Weekly rate of wages:	1923	1930
Under $7 00	..	..
7– 8	3	..
8– 9	24	2
9–10	24	6
11–11	17	19
11–12	34	36
12–13	19	58
13–14	28	22
14–15	17	20
15–16	10	27
16–18	14	18
18–20	11	8
20–22	5	8
22 up	7	19
Total	213	243

ORDER NO. 23

In cities and towns of from 5,000 to 30,000 population:

	1923	1930
Number of firms reporting	15	11
Total number of female employees	207	145
Over 18 years	174	141
Under 18 years	33	4
Total weekly wages	$2,673 65	$2,301 47
Over 18 years	2,287 94	2,247 69
Under 18 years	385 71	53 78
Average weekly wages	12 92	15 87
Over 18 years	13 15	15 94
Under 18 years	11 69	13 45
Percentage of young girls under 18	15.9	2.7
Percentage of married women	2.9	5.5
Average hours worked per week	44.5	44.4

Weekly rate of wages:	1923	1930
Under $7 00	..	..
7– 8	1	..
8– 9	3	..
9–10	11	..
10–11	12	12
11–12	56	26
12–13	26	6
13–14	25	2
14–15	17	6
15–16	14	10
16–18	35	34
18–20	4	19
22–22	1	7
22–up	2	23
Total	207	145

ORDER NO. 24

In places having less than 5,000 urban population:

	1923	1930
Number of firms reporting	14	12
Total number of female employees	174	182
Over 18 years	146	167
Under 18 years	28	15
Total weekly wages	$1,805 47	$2,091 98
Over 18 years	1,559 07	1,948 39
Under 18 years	246 40	143 59
Average weekly wages	10 38	11 49
Over 18 years	10 68	11 67
Under 18 years	8 80	9 57
Percentage of young girls under 18	16.09	8.2
Percentage of married women	3.45	10.9
Average hours worked per week	46.2	45.6

Weekly rate of wages:	1923	1930
Under $7 00	..	..
7– 8	35	..
8– 9	14	6
9–10	56	35
10–11	23	61
11–12	12	24
12–13	9	19
13–14	3	12
14–15	5	5
15–16	5	3
16–18	3	7
18–20	4	4
20–22	2	4
22–up	3	2
Total	174	182

Order No. 28

These are the factories engaged in the boot and shoe and other leather trades:

In the City of Toronto:

	1923	1930
Number of firms reporting	28	35
Total number of female employees	381	549
Over 18 years	299	493
Under 18 years	82	56
Total weekly wages	$5,519 98	$8,277 14
Over 18 years	4,674 65	7,768 16
Under 18 years	845 33	508 98
Average weekly wage	14 48	15 09
Over 18 years	15 64	15 75
Under 18 years	10 31	9 09
Percentage of young girls under 18	21.5	10.2
Percentage of married women	21.8	22.4
Average hours worked per week	45.1	44.9

Weekly rate of wages:	1923	1930
Under $7 00	..	2
7– 8	8	..
8– 9	21	16
9–10	25	20
10–11	30	38
11–12	12	18
12–13	39	89
13–14	21	45
14–15	24	61
15–16	41	45
16–18	47	71
18–20	45	73
20–22	47	42
22–up	21	29
Total	381	549

The same trades in cities over 30,000, excepting Toronto:

	1923	1930
Number of firms reporting	5	8
Total number of female employees	107	174
Over 18 years of age	97	160
Under 18 years	10	14
Total weekly wages	$1,626 07	$3,054 08
Over 18 years	1,522 37	2,892 58
Under 18 years	103 70	161 40
Average weekly wages	15 19	17 55
Over 18 years	15 69	18 08
Under 18 years	10 37	11 52
Percentage of young girls under 18	9.3	8.7
Percentage of married women	33.6	25.
Average hours worked per week	47.	48.

Weekly rate of wages:	1923	1930
Under $7 00	1	..
7– 8	..	..
8– 9	4	3
9–10	4	4
10–11	9	15
11–12	6	8
12–13	8	10
13–14	16	11
14–15	6	7
15–16	12	17
16–18	15	25
18–20	10	11
20–22	6	20
22–up	10	43
Total	107	174

The same trade in towns and cities of from 5,000 to 30,000 population:

	1923	1930
Number of firms reporting	28	32
Total number of female employees	544	656
Over 18 years	443	560
Under 18 years	101	96
Total weekly wages	$7,003 32	$9,491 59
Over 18 years	6,058 87	8,420 62
Under 18 years	944 45	1,070 97
Average weekly wages	12 87	14 47
Over 18 years	13 67	15.04
Under 18 years	9 35	11 16
Percentage of youn girls under 18	18.5	14.6
Percentage of married women	14.9	24.4
Average hours worked per week	49.2	48.3

Weekly rate of wages:	1923	1930
Under $7 00	15	..
7– 8	18	14
8– 9	46	22
9–10	24	35
10–11	57	62
11–12	29	81
12–13	131	87
13–14	42	50
14–15	23	44
15–16	39	58
16–18	41	76
18–20	41	38
20–22	19	37
22–up	19	52
Total	544	656

The same trades in places under 5,000 population:

	1923	1930
Total number of firms reporting	17	22
Total number of female employees	335	544
Over 18 years	275	442
Under 18 years	60	102
Total weekly wages	$3,737 14	$6,861 00
Over 18 years	3,226 47	5,839 48
Under 18 years	510 67	1,021 52
Average weekly wages	11 15	12 61
Over 18 years	11 73	13 21
Under 18 years	8 51	10 01
Percentage of young girls under 18	17.9	18.7
Percentage of married women	10.7	16.3
Average hours worked per week	48.	47.9

Weekly rate of wages:	1923	1930
Under $7 00	28	3
7– 8	29	22
8– 9	34	35
9–10	42	86
10–11	44	74
11–12	35	46
12–13	34	71
13–14	18	46
14–15	16	41
15–16	12	32
16–18	27	27
18–20	5	28
20–22	5	15
22–up	6	18
Total	335	544

ORDER NO. 30

These factories make electrical goods:

In the City of Toronto:

	1923	1930
Number of firms reporting	8	30
Total number of female employees	593	818
Over 18 years	488	708
Under 18 years	105	110
Total weekly wages	$7,668 87	$12,351 44
Over 18 years	6,582 59	11,068 98
Under 18 years	1,086 28	1,282 46
Average weekly wages	12 93	15 10
Over 18 years	13 49	15 63
Under 18 years	10 34	11 66
Percentage of young girls under 18	17.7	13.4
Percentage of married women	16.6	12.4
Average hours worked per week	47	46.1

Weekly rate of wages:	1923	1930
Under $7 00	..	..
7– 8	..	..
8– 9	9	10
9–10	15	14
10–11	36	25
11–12	120	66
12–13	97	164
13–14	94	122
14–15	100	126
15–16	43	74
16–18	42	101
18–20	25	80
20–22	9	11
22–up	3	25
Total	593	818

The same trade in cities of over 30,000, excepting Toronto:

	1923	1930
Number of firms reporting	4	7
Total number of female employees	73	575
Over 18 years	52	537
Under 18 years	21	38
Total weekly wages	$1,015 09	$9,311 94
Over 18 years	765 42	8,861 25
Under 18 years	250 67	450 69
Average weekly wages	13 91	16 20
Over 18 years	14 72	16 50
Under 18 years	11 93	11 86
Percentage of young girls under 18	28.7	6.6
Percentage of married women	9.6	1.7
Average hours worked per week	46.6	48.8

Weekly rate of wages:	1923	1930
Under $7 00	..	..
7– 8	..	..
8– 9	1	..
9–10	4	..
10–11	7	18
11–12	11	11
12–13	7	77
13–14	10	44
14–15	11	69
15–16	3	50
16–18	9	136
18–20	8	93
20–22	2	44
2–up	..	33
Total	73	575

The same trade in cities and towns of from 5,000 to 30,000 population:

	1923	1930
Number of firms reporting	4	12
Total number of female employees	32	499
Over 18 years	21	454
Under 18 years	11	45
Total weekly wages	$351 25	$6,754 56
Over 18 years	242 75	6,219 19
Under 18 years	108 50	535 37
Average weekly wages	10 98	13 54
Over 18 years	11 56	13 69
Under 18 years	9 86	11 90
Percentage of young girls under 18	34.4	9.
Percentage of married women	12.5	12.8
Average hours worked per week	48.5	46.5

Weekly rate of wages:	1923	1930
Under $7 00	..	..
7– 8	..	..
8 –9	4	1
9–10	..	17
10–11	17	51
11–12	4	118
12–13	2	85
13–14	1	54
14–15	3	45
15–16	..	36
16–18	..	45
18–20	..	28
20–22	1	6
22–up	..	13
Total	32	499

In places under 5,000 population:

	1923	1930
Number of firms reporting	1	3
Total number of female employees	3	16
Over 18 years	3	12
Under 18 years	....	4
Total weekly wages	$34 00	$200 43
Over 18 years	34 00	154 90
Under 18 years	....	45 53
Average weekly wages	11 33	12 53
Over 18 years	11 33	12 91
Under 18 years	....	11.38
Percentage of young girls under 18	....	25
Percentage of married women	....	31.2
Average hours worked per week	50	48

Weekly rate of wages:	1923	1930
Under $7 00	..	..
7– 8	..	..
8– 9	..	..
9–10	..	2
10–11	2	1
11–12	..	2
12–13	1	6
13–14	..	2
14–15	..	..
15–16	..	1
16–18	..	2
18–20	..	..
20–22	..	..
22–up	..	..
Total	3	16

ORDER No. 34

The food trades, including the making of confectionery, biscuit, chocolate, jam, gum, grocery specialties, crushed fruit, syrup, pickles, together with bakeries, packing houses and all allied industries (excepting seasonal canneries).

This order includes part of Order No. 2, which went into force August 1st, 1921. The latter part of this order came into force October 1st, 1924.

In the City of Toronto:

	1926	1930
Number of firms reporting	84	106
Total number of female employees	2,530	3,071
Over 18 years	2,132	2,652
Under 18 years	398	419
Total weekly wages	$33,265 40	$41,446 90
Over 18 years	28,394 85	36,956 10
Under 18 years	4,870 55	4,490 80
Average weekly wages	13 15	13 50
Over 18 years	13 46	13 93
Under 18 years	12 24	10 72
Percentage of young girls under 18	15.7	13.6
Percentage of married women	9.9	14.1
Average hours worked per week	46.1	45.9

Weekly rate of wages:	1926	1930
Under $7 00	8	..
7– 8	..	..
8– 9	129	73
9–10	165	105
10–11	206	156
11–12	262	241
12–13	811	863
13–14	272	425
14–15	194	322
15–16	193	305
16–18	134	295
18–20	73	145
20–22	35	68
22–up	48	73
Total	2,530	3,071

The same trades in cities of 30,000 population or over, excepting Toronto:

	1926	1930
Number of firms reporting	65	60
Total number of female employees	925	990
Over 18 years	813	878
Under 18 years	112	112
Total weekly wages	$11,530 57	$13,238 86
Over 18 years	10,248 89	11,950 65
Under 18 years	1,281 68	1,288 21
Average weekly wages	12 47	13 37
Over 18 years	12 61	13 61
Under 18 years	11 44	11 50
Percrntage of young girls under 18	12.1	11.3
Percentage of married women	16.4	21.7
Average hours worked per week	46.5	48.1

Weekly rate of wages:	1926	1930
Under $7 00	11	....
7– 8	15	....
8– 9	73	15
9–10	66	23
10–11	120	49
11–12	160	135
12–13	143	162
13–14	90	198
14–15	68	192
15–16	85	68
16–18	48	67
18–20	23	39
20–22	15	20
22–up	8	22
Total	925	990

The same trade in places of 5,000 to 30,000 population:

	1926	1930
Total number of firms reporting	76	67
Total number of female employees	612	702
Over 18 years	503	561
Under 18 years	109	141
Total weekly wages	$7,259 06	$8,930 50
Over 18 years	6,076 98	7,533 02
Under 18 years	1,182 08	1,397 48
Average weekly wages	11 96	12 72
Over 18 years	12 08	13 43
Under 18 years	10 84	9 91
Percentage of young girls under 18	17.8	20.0
Percentage of married women	.88	11.9
Average hours worked per week	52.8	48.3

Weekly rate of wages:	1926	1930
Under $7 00	....	....
7– 8	44	33
8– 9	45	24
9–10	89	47
10–11	27	69
11–12	150	81
12–13	79	202
13–14	38	55
14–15	23	41
15–16	32	37
16–18	31	41
18–20	22	22
20–22	20	24
22–up	12	26
Total	612	702

The same trade in places under 5,000 population:

	1926	1930
Number of firms reporting	33	41
Total number of female employees	246	359
Over 18 years	220	311
Under 18 years	26	48
Total weekly wages	$3,159 49	$4,549 42
Over 18 years	2,842 57	4,075 49
Under 18 years	316 92	473 93
Average weekly wages	12 84	12 69
Over 18 years	12 92	13 23
Under 18 years	12 19	9 87
Percentage of young girls under 18	10.5	13.4
Percentage of married women	21.9	25.
Average hours worked per week	51.9	49.7
Weekly rate of wages:	1926	1931
Under $7 00	2	1
7– 8	4	2
8– 9	15	6
9–10	5	9
10–11	32	90
11–12	53	48
12–13	30	47
13–14	6	28
14–15	63	45
15–16	9	16
16–18	7	32
18–20	8	11
20–22	3	9
22–up	9	15
Total	246	359

ORDER NO. 35

Miscellaneous order: governing all factory trades not dealt with in other orders (except seasonal canneries).

This order came into force October 1st, 1924.

In the City of Toronto:

	1926	1930
Number of firms reporting	95	140
Total number of female employees	1,189	1,499
Over 18 years	1,020	1,381
Under 18 years	169	118
Total weekly wages	$16,765 57	$22,118 58
Over 18 years	15,044 74	20,872 67
Under 18 years	1,720 83	1,245 91
Average weekly wages	14 10	14 76
Over 18 years	14 75	15 11
Under 18 years	10 18	10 56
Percentage of young girls under 18	14.2	7.8
Percentage of married women	15.6	18.6
Average hours worked per week	45.7	45.2
Weekly rate of wages:	1926	1930
Under $7 00	....	....
7– 8	2	3
8– 9	23	19
9–10	50	17
10–11	100	80
11–12	111	109
12–13	253	365
13–14	178	224
14–15	92	153
15–16	84	183
16–18	130	136
18–20	78	98
20–22	43	47
22–up	45	65
Total	1,189	1,499

In cities of 30,000 population or over, excepting Toronto:

	1926	1930
Number of firms reporting	54	73
Total number of female employees	779	925
Over 18 years	701	861
Under 18 years	78	64
Total weekly wages	$10,903 86	$13,395 13
Over 18 years	10,008 85	12,710 20
Under 18 years	895 01	684 93
Average weekly wages	14 00	14 48
Over 18 years	14 28	14 76
Under 18 years	11 47	10 79
Percentage of young girls under 18	10.0	6.9
Percentage of married women	16.8	17 08
Average hours worked per week	47.3	47.6

Weekly rate of wages:	1926	1930
Under $7 00	....	1
7– 8	2	1
8– 9	21	9
9–10	43	45
10–11	59	43
11–12	103	167
12–13	129	136
13–14	83	84
14–15	64	81
15–16	72	59
16–18	127	95
18–20	35	122
20–22	14	50
22–up	37	32
Total	779	925

In cities and towns of from 5,000 to 30,000 population:

	1926	1930
Number of firms reporting	72	95
Total number of female employees	1,123	1,185
Over 18 years	924	1,038
Under 18 years	199	147
Total weekly wages	$14,511 87	$16,096 46
Over 18 years	12,307 86	14,447 65
Under 18 years	2,204 01	1,648 81
Average weekly wages	12 92	13 58
Over 18 years	13 32	13 92
Under 18 years	11 08	11 22
Percentage of young girls under 18	17.7	12.4
Percentage of married women	15.5	16.9
Average hours worked per week	48.7	48.3

Weekly rate of wages:	1926	1930
Under $7 00	9	1
7– 8	19	17
8– 9	24	24
9–10	97	74
10–11	98	90
11–12	261	256
12–13	147	148
13–14	99	113
14–15	147	120
15–16	79	85
16–18	71	117
18–20	28	60
20–22	12	39
22–up	32	41
Total	1,123	1,185

The same trade in places having less than 5,000 population:

	1926	1930
Number of firms reporting	56	71
Total number of female employees	972	1,037
Over 18 years	830	910
Under 18 years	142	127
Total weekly wages	$12,002 50	$12,915 06
Over 18 years	10,587 50	11,608 92
Under 18 years	1,415 00	1,306 14
Average weekly wages	12 35	12 45
Over 18 years	12 76	12 76
Under 18 years	9 96	10 28
Percentage of young girls under 18	14.6	12.2
Percentage of married women under 50	17.3	26.8
Average hours worked per week	48.7	49.2

Weekly rate of wages:	1926	1930
Under $7 00	16	5
7– 8	22	16
8– 9	139	63
9–10	59	188
10–11	166	118
11–12	92	102
12–13	97	134
13–14	63	73
14–15	26	32
15–16	34	190
16–18	225	27
18–20	20	18
20–22	7	61
22–up	6	10
Total	972	1,037

ORDER No. 36

Factories making tobacco goods:

In the City of Toronto:

	1926	1930
Number of firms reporting	5	4
Total number of female employees	219	241
Over 18 years	213	229
Under 18 years	6	12
Total weekly wages	$3,217 96	$3,882 36
Over 18 years	3,152 08	3,753 69
Under 18 years	65 88	128 67
Average weekly wages	14 69	16 11
Over 18 years	14 80	16 39
Under 18 years	10 98	10 72
Percentage of young girls under 18	2.7	4.9
Percentage of married women	12.8	33.6
Average hours worked per week	42.0	43.8

Weekly rate of wages:	1926	1930
Under $7 00	....	....
7– 8	....	....
8– 9	2	1
9–10	13	60
10–11	20	12
11–12	29	1
12–13	17	7
13–14	17	20
14–15	8	8
15–16	10	4
16–18	18	22
18–20	28	5
20–22	41	98
22–up	16	3
Total	219	241

In cities of 30,000 population or over, excepting Toronto:

	1926	1930
Number of firms reporting	5	6
Total number of female employees	308	208
Over 18 years	285	193
Under 18 years	23	15
Total weekly wages	$3,706 82	$2,490 12
Over 18 years	3,480 82	2,341 62
Under 18 years	226 00	148 50
Average weekly wages	12 04	11 97
Over 18 years	12 21	12 13
Under 18 years	9.83	9 90
Percentage of young girls under 18	7.5	7.2
Percentage of married women	26.6	41.8
Average hours worked per week	42.6	43.5

Weekly rate of wages:	1926	1930
Under $7 00	....	....
7– 8	....	....
8– 9	8	....
9–10	42	5
10–11	54	36
11–12	81	96
12–13	46	28
13–14	20	20
14–15	18	10
15–16	21	6
16–18	7	1
18–20	5	5
20–22	3	1
22–up	3	....
Total	308	208

In places having less than 5,000 urban population:

	1926	1930
Number of firms reporting	2	2
Total number of female employees	39	183
Over 18 years	33	177
Under 18 years	6	6
Total weekly wages	$458 69	$2,109 68
Over 18 years	396 59	2,053 58
Under 18 years	62 10	56 10
Average weekly wages	11 76	11 53
Over 18 years	12 02	11 60
Under 18 years	10 35	9 35
Percentage of young girls under 18	15.4	3.2
Percentage of married women	48.7	51.3
Average hours worked per week	43.0	49.5

Weekly rate of wages:	1926	1930
Under $7 00	....	....
7– 8	....	....
8– 9	....	....
9–10	1	25
10–11	24	81
11–12	5	....
12–13	1	16
13–14	1	61
14–15	3	....
15–16	1	....
16–18	2	....
18–20	....	....
20–22	....	....
22–up	1	....
Total	39	183

ORDER NO. 37

Factories making rubber goods:

In the City of Toronto:

	1926	1930
Number of firms reporting	6	4
Total number of female employees	434	508
Over 18 years	415	495
Under 18 years	19	13
Total weekly wages	$7,152 43	$8,788 31
Over 18 years	6,892 97	8,609 45
Under 18 years	259 46	178 86
Average weekly wages	16 48	17 30
Over 18 years	16 61	17 39
Under 18 years	13 66	13 76
Percentage of young girls under 18	4.4	2.5
Percentage of married women	24.8	30.7
Average hours worked per week	45.8	45.0

Weekly rate of wages:	1926	1930
Under $7 00	....	....
7– 8	....	....
8– 9	....	....
9–10	....	....
10–11	2	1
11–12	5	2
12–13	40	14
13–14	53	40
14–15	56	36
15–16	55	35
16–18	99	214
18–20	70	123
20–22	30	22
22–up	24	21
Total	434	508

The same trade in cities of 30,000 population or over, excepting Toronto:

	1926	1930
Number of firms reporting	2	1
Total number of female employees	3	66
Over 18 years	3	66
Under 18 years	....	....
Total weekly wages	$65 38	$1,180 84
Over 18 years	65 38	1,180 84
Under 18 years	....	....
Average weekly wages	21 79	17 89
Over 18 years	21 79	17 89
Under 18 years	....	....
Percentage of young girls under 18 years	....	....
Percentage of married women	....	16.6
Average hours worked per week	40.6	50.0

Weekly rate of wages:	1926	1930
Under $7 00	....	....
7– 8	....	....
8– 9	....	....
9–10	....	....
10–11	....	....
11–12	....	....
12–13	....	2
13–14	....	2
14–15	....	5
15–16	....	6
16–18	....	17
18–20	1	20
20–22	1	12
22–up	1	2
Total	3	66

In cities and towns of from 5,000 to 30,000 population:

	1926	1930
Number of firms reporting	8	11
Total number of female employees	517	963
Over 18 years	402	795
Under 18 years	115	168
Total weekly wages	$6,419 12	$12,353 87
Over 18 years	5,324 78	10,735 17
Under 18 years	1,094 34	1,618 70
Average weekly wages	12 42	12 83
Over 18 years	13 25	13 50
Under 18 years	9 52	9 64
Percentage of young girls under 18	22.2	17.4
Percentage of married women	17.6	29.2
Average hours per week	48.9	44.6

Weekly rate of wages:	1926	1930
Under $7 00	4	4
7– 8	7	9
8– 9	41	57
9–10	55	150
10–11	55	79
11–12	111	139
12–13	65	111
13–14	54	124
14–15	43	85
15–16	35	59
16–18	33	73
18–20	15	33
20–22	7	17
22–up	3	23
Total	517	963

The same trade in places having less than 5,000 urban population:

	1926	1930
Number of firms reporting	3	4
Total number of female employees	255	95
Over 18 years	200	85
Under 18 years	55	10
Total weekly wages	$3,714 98	$1,350 67
Over 18 years	3,005 92	1,248 60
Under 18 years	709 06	102 07
Average weekly wages	14 56	14 22
Over 18 years	15 03	14 69
Under 18 years	12 89	10 21
Percentage of young girls under 18	21.6	10.5
Percentage of married women	11.8	25.2
Average hours worked per week	54.1	47.2

Weekly rate of wages:	1926	1930
Under $7 00	....	....
7– 8	4	....
8– 9	8	5
9–10	13	2
10–11	20	8
11–12	22	6
12–13	29	4
13–14	20	14
14–15	28	12
15–16	26	23
16–18	34	14
18–20	26	5
20–22	21	2
22–up	4	....
Total	255	95

Order No. 38

Factories making jewellery:

In the City of Toronto:

	1926	1930
Number of firms reporting	20	21
Total number of female employees	159	211
Over 18 years	141	193
Under 18 years	18	18
Total weekly wages	$2,274 93	$3,232 69
Over 18 years	2,108 93	3,040 69
Under 18 years	166 00	192 00
Average weekly wages	14 31	15 32
Over 18 years	14 96	15 75
Under 18 years	9 22	10 66
Percentage of young girls under 18	11.3	11.7
Percentage of married women	8.8	12.7
Average hours worked per week	44.0	43.3

Weekly rate of wages:	1926	1930
Under $7 00	2	....
7– 8	1	....
8– 9	8	2
9–10	7	6
10–11	11	6
11–12	12	6
12–13	23	39
13–14	17	25
14–15	16	26
15–16	13	28
16–18	13	24
18–20	12	12
20–22	13	21
22–up	11	16
Total	159	211

In cities of 30,000 population or over, excepting Toronto:

	1926	1930
Number of firms reporting	6	8
Total number of female employees	17	23
Over 18 years	14	20
Under 18 years	3	3
Total weekly wages	$223 59	$332 50
Over 18 years	201 59	309 50
Under 18 years	22 00	23 00
Average weekly wages	13 15	14 45
Over 18 years	14 40	15 47
Under 18 years	7 33	7 28
Percentage of young girls under 18	17.6	13.0
Percentage of married women	....	4.3
Average hours worked per week	46.1	44.4

Weekly rate of wages:	1926	1930
Under $7 00	....	....
7– 8	2	2
8– 9	1	....
9–10	....	1
10–11	....	....
11–12	4	4
12–13	....	2
13–14	....	1
14–15	4	....
15–16	1	....
16–18	5	8
18–20	....	3
20–22	....	2
22–up	....	....
Total	17	23

The same trade in cities and towns of 5,000 to 30,000:

	1926	1930
Number of firms reporting	5	8
Total number of female employees	61	157
Over 18 years	51	129
Under 18 years	10	28
Total weekly wages	$803 97	$2,028 26
Over 18 years	691 84	1,772 31
Under 18 years	112 13	255 95
Average weekly wages	13 18	12 90
Over 18 years	13 56	13 74
Under 18 years	11 21	9 14
Percentage of young girls under 18	16.4	17.8
Percentage of married women	13.1	19.7
Average hours worked per week	47.1	48.5

Weekly rate of wages:	1926	1930
Under $7 00	....	....
7– 8	....	8
8– 9	4	14
9–10	....	17
10–11	13	11
11–12	7	23
12–13	8	20
13–14	5	18
14–15	11	15
15–16	5	10
16–18	3	5
18–20	2	4
20–22	3	1
22–up	....	11
Total	61	157

ORDER NO. 39

The paper trades, which include printing, bookbinding, paper box making, paper bag making, manufacturing stationery and other trades making paper or paper products.

This order includes part of Order No. 2, which went into force August 1st, 1921. The latter part came into force November 15th, 1924.

In the City of Toronto:

	1926	1930
Number of firms reporting	162	199
Total number of female employees	2,514	2,883
Over 18 years	2,197	2,573
Under 18 years	317	310
Total weekly wages	$36,457 96	$44,695 21
Over 18 years	33,152 65	41,471 18
Under 18 years	3,305 31	3,224 03
Average weekly wages	14 50	15 50
Over 18 years	15 08	16 12
Under 18 years	10 42	10 40
Percentage of young girls under 18	12.6	10.7
Percentage of married women	13.6	16.9
Average hours worked per week	45.7	45.5

Weekly rate of wages:	1926	1930
Under $7 00	4	2
7– 8	6	3
8– 9	107	60
9–10	151	83
10–11	201	170
11–12	155	129
12–13	401	438
13–14	195	243
14–15	197	286
15–16	240	241
16–18	492	662
18–20	170	223
20–22	80	144
22–up	115	199
Total	2,514	2,883

The same trade in cities of 30,000 population or over, excepting Toronto:

	1926	1930
Number of firms reporting	64	74
Total number of female employees	642	1,340
Over 18 years	583	1,231
Under 18 years	60	109
Total weekly wages	$8,521 29	$18,226 68
Over 18 years	7,939 28	17,150 11
Under 18 years	582 01	1,076 57
Average weekly wages	13 25	13 60
Over 18 years	13 62	13 93
Under 18 years	9 70	9 88
Percentage of young girls under 18	9.3	8.1
Percentage of married women	10.6	7.7
Average hours worked per week	46.5	45.7

Weekly rate of wages:	1926	1930
Under $7 00	1	....
7– 8	4	....
8– 9	50	28
9–10	51	54
10–11	73	94
11–12	87	272
12–13	84	280
13–14	81	149
14–15	42	132
15–16	49	91
16–18	37	100
18–20	24	60
20–22	19	29
22–up	41	51
Total	643	1,340

The same trades in towns and cities of from 5,000 to 30,000 population:

	1926	1930
Number of firms reporting	59	73
Total number of female employees	579	769
Over 18 years	509	702
Under 18 years	70	67
Total weekly wages	$7,452 31	$10,635 58
Over 18 years	6,794 95	9,979 73
Under 18 years	657 36	655 85
Average weekly wages	12 87	13 83
Over 18 years	13 35	14 21
Under 18 years	9.39	9.78
Percentage of young girls under 18	12.1	8.7
Percentage of married women	8.3	11.9
Average hours worked per week	47.5	47.7

Weekly rate of wages:	1926	1930
Under $7 00	2	....
7– 8	26	7
8– 9	28	17
9–10	55	30
10–11	87	71
11–12	112	148
12–13	58	140
13–14	20	58
14–15	35	65
15–16	65	51
16–18	28	58
18–20	19	37
20–22	11	30
22–up	33	57
Total	579	769

In places of less than 5,000 population:

	1926	1930
Number of firms reporting	95	74
Total number of female employees	250	354
Over 18 years	231	318
Under 18 years	19	36
Total weekly wages	$3,266 71	$4,876 31
Over 18 years	3,074 22	4,455 79
Under 18 years	192 49	420 52
Average weekly wages	13 06	13 77
Over 18 years	13 31	14 01
Under 18 years	10 13	11 68
Percentage of young girls under 18	7.6	10.2
Percentage of married women	6.2	11.3
Average hours worked per week	47.3	48.9

Weekly rate of wages:	1926	1930
Under $7 00	13	3
7– 8	7	2
8– 9	5	4
9–10	5	3
10–11	33	55
11–12	7	36
12–13	34	65
13–14	35	38
14–15	37	19
15–16	39	62
16–18	12	28
18–20	8	16
20–22	10	14
22–up	5	9
Total	250	354

ORDER NO. 27

Hotels, restaurants and refreshment rooms:

In the City of Toronto:

	1926	1930
Number of firms reporting	138	175
Total number of female employees	1,949	2,934
Over 18 years	1,925	2,879
Under 18 years	24	55
Total weekly wages	$30,333 86	$47,681 44
Over 18 years	29,985 11	46,846 70
Under 18 years	348 75	834 74
Average weekly wages	15 56	16 25
Over 18 years	15 58	16 27
Under 18 years	14 53	15 18
Percentage of young girls under 18	1.2	1.8
Percentage of married women	35.6	35.4
Average hours worked per week	49.8	50.7

Weekly rate of wages:	1926	1930
Under $7 00	....	....
7– 8	....	....
8– 9	....	....
9–10	....	....
10–11	....	....
11–12	....	....
12–13	168	137
13–14	375	481
14–15	254	453
15–16	423	452
16–18	386	548
18–20	157	522
20–22	98	139
22–up	88	202
Total	1,949	2,934

Order No. 46

Hotels, restaurants and refreshment rooms,

In towns and cities of 30,000 population or over, excepting Toronto:

	1927	1930
Number of firms reporting	87	151
Total number of female employees	392	882
Over 18 years	365	855
Under 18 years	27	27
Total weekly wages	$6,290 44	$12,902 83
Over 18 years	5,940 94	12,528 33
Under 18 years	349 50	374 50
Average weekly wages	16 05	14 62
Over 18 years	16 28	14 65
Under 18 years	12 94	13 87
Percentage of young girls under 18	6.8	3.06
Percentage of married women	29.5	28.0
Average hours worked per week	57.7	51.6

Weekly rate of wages:	1927	1930
Under $7 00	....	....
7– 8	....	....
8– 9	....	....
9–10	....	....
10–11	....	....
11–12	....	2
12–13	94	314
13–14	66	155
14–15	59	130
15–16	28	82
16–18	84	105
18–20	42	44
20–22	10	23
22–up	9	27
Total	392	882

In cities and towns of from 10,000 to 30,000 population:

	1929	1930
Number of firms reporting	176	215
Total number of female employees	1,071	1,057
Over 18 years	1,020	1,009
Under 18 years	51	48
Total weekly wages	$14,922 41	$14,653 32
Over 18 years	14,250 23	14,026 11
Under 18 years	671 90	627 21
Average weekly wages	13 93	13 86
Over 18 years	13 97	13 90
Under 18 years	13 17	13 07
Percentage of young girls under 18	4.7	4.5
Percentage of married women	28.0	27.0
Average hours worked per week	52.4	50.1

Weekly rate of wages:	1929	1930
Under $7 00	....	....
7-8	....	....
8-9	....	....
9-10	....	1
10-11	....	1
11-12	163	203
12-13	249	273
13-14	205	148
14-15	191	186
15-16	73	72
16-18	104	78
18-20	39	38
20-22	19	20
22-up	28	37
Total	1,071	1,057

In cities and towns of from 4,000 to 10,000 population:

	1929	1930
Number of firms reporting	117	195
Total number of female employees	484	670
Over 18 years	455	620
Under 18 years	29	50
Total weekly wages	$6,566 91	$8,768 98
Over 18 years	6,208 87	8,170 52
Under 18 years	358 04	598 46
Average weekly wages	13 57	13 09
Over 18 years	13 65	13 18
Under 18 years	12 35	11 97
Percentage of young girls under 18	5.9	7.4
Percentage of married women	20.2	17.0
Average hours worked per week	53.1	52.8

Weekly rate of wages:	1929	1930
Under $7 00	....	....
7- 8	....	....
8- 9	....	....
9-10	....	....
10-11	29	58
11-12	79	179
12-13	118	151
13-14	131	96
14-15	51	83
15-16	15	16
16-18	25	48
18-20	16	18
20-22	9	10
22-up	11	11
Total	484	670

ORDER No. 41

Custom Millinery in Toronto:

	1928	1930
Number of firms reporting	68	47
Total number of female employees	625	416
Over 18 years	562	389
Under 18 years	63	27
Total weekly wages	$10,562 51	$7,148 00
Over 18 years	10,026 51	6,944 00
Under 18 years	536 00	204 00
Average weekly wages	16 90	17 18
Over 18 years	17 84	17 85
Under 18 years	8 50	7 55
Percentage of young girls under 18	10.0	6.4
Percentage of married women	13.6	10.0
Average hours worked per week	46.8	47.9

Weekly rate of wages:

Weekly rate of wages:	1928	1930
Under $7 00	21	11
7– 8	20	7
8– 9	20	8
9–10	17	9
10–11	30	12
11–12	10	3
12–13	56	30
13–14	32	22
14–15	45	39
15–16	66	55
16–18	90	72
18–20	52	40
20–22	45	26
22–up	131	82
Total	625	416

ORDER No. 43

Custom Millinery in cities of 30,000 population or over, excepting Toronto:

	1928	1930
Number of firms reporting	48	38
Total number of female employees	212	123
Over 18 years	203	120
Under 18 years	9	3
Total weekly wages	$3,162 79	$2,175 31
Over 18 years	3,096 79	2,149 44
Under 18 years	76 00	25 87
Average weekly wages	14 92	17 68
Over 18 years	15 20	16 91
Under 18 years	8 44	8 62
Percentage of young girls under 18	4.2	2.4
Percentage of married women	14.7	6.5
Average hours worked per week	48.0	46.5

Weekly rate of wages:	1928	1930
Under $7 00	7	....
7– 8	1	....
8– 9	4	2
9–10	5	1
10–11	12	....
11–12	5	2
12–13	46	14
13–14	18	7
14–15	6	10
15–16	22	19
16–18	22	11
18–20	15	14
20–22	17	17
22–up	32	26
Total	212	123

ORDER No. 45

Custom Millinery in places of from 4,000 to 30,000 population:

	1929	1930
Total number of firms reporting	74	64
Total number of female employees	156	133
Over 18 years	145	131
Under 18 years	11	2
Total weekly wages	$2,351 75	$2,195 57
Over 18 years	2,285 75	2,186 57
Under 18 years	66 00	9 00
Average weekly wages	15 07	16 51
Over 18 years	15 76	16 69
Under 18 years	6 00	4 50
Percentage of young girls under 18 years	7.0	1.5
Percentage of married women	7.7	13.5
Average hours worked per week	50.6	50.6

Weekly rate of wages:	1929	1930
Under $7 00	11	3
7– 8	4	6
8– 9	3	4
9–10	5	5
10–11	12	8
11–12	3	3
12–13	19	11
13–14	6	3
14–15	6	5
15–16	26	21
16–18	14	11
18–20	12	14
20–22	14	18
22–up	21	21
Total	156	133

ORDER NO. 42

Hairdressing and Beauty Parlors in Toronto:

	1928	1930
Number of firms reporting	64	62
Total number of female employees	271	273
Over 18 years	258	261
Under 18 years	13	12
Total weekly wages	$5,139 00	$5,504 44
Over 18 years	4,967 25	5,355 44
Under 18 years	171 75	149 00
Average weekly wages	18 96	20 16
Over 18 years	19 25	20 51
Under 18 years	13 21	12 40
Percentage of young girls under 18	4.8	4.0
Percentage of married women	15.5	8.0
Average hours worked per week	47.3	46.5
Weekly rate of wages:	1928	1930
Under $7 00	8	4
7– 8	3	1
8– 9	3	4
9–10	2	1
10–11	6	4
11–12	2	2
12–13	18	25
13–14	3	7
14–15	2	12
15–16	37	30
16–18	25	25
18–20	46	34
20–22	42	42
22–up	74	82
Total	271	273

ORDER NO. 44

The same trade in cities of 30,000 population or over, excepting Toronto:

	1929	1930
Number of firms reporting	44	44
Total number of female employees	111	118
Over 18 years	....	115
Under 18 years	....	3
Total weekly wages	$1,896 24	$1,959 55
Over 18 years	....	1,934 55
Under 18 years	....	25 00
Average weekly wages	17 08	16 61
Over 18 years	....	16 82
Under 18 years	....	8 33
Percentage of young girls under 18 years	....	2.5
Percentage of married women	13.5	18.6
Average hours worked per week	46.7	47.6

Weekly rate of wages:	1929	1930
Under $7 00	1	4
7– 8	....	....
8– 9	1	1
9–10	....	....
10–11	4	7
11–12	....	....
12–13	12	19
13–14	1	2
14–15	4	5
15–16	21	21
16–18	14	14
18–20	13	8
20–22	17	19
22–up	23	18
Total	111	118

ADMINISTRATION

There is reason to believe that the enforcement of its orders by the Board has had the effect, not only of forbidding wage rates beneath the prescribed minimum levels, but also of supporting wage standards generally as menaced by the present depression.

The orders are printed on cards and posted in the several business establishments where they may be readily seen by the female employees. The Factory Inspectors report regularly as to their being properly displayed. Complaints come in constantly, amounting to 350 during 1930. Every fortnight Mr. Burke, Chief Factory Inspector, meets with the Board for the review of the complaints. His aid and counsel have been extremely valuable. All the complaints have been satisfactorily dealt with.

In addition, wage sheets are gathered from all the factories, laundries, hotels, millinery, hairdressers, etc., and from many stores, offices, etc. In all, 4,159 such reports have been collected, giving particulars as to the wages of 70,888 women. These have been analyzed and any apparent lack of conformity with the orders taken up. In all 409 firms have been thus interrogated. In all these cases the wages in question have been either adjusted or satisfactorily explained.

It has been several times suggested that this method is ineffective on the ground that the reports of employers are unreliable; that they can and do misinform us and thus continue to violate the law and escape detection.

This Board replies that in over ten years it has had occasion to check these reports many times by questioning the workers concerned and has not yet found one such report which clearly misrepresented a wage-payment. There have been several instances which required investigation, but investigation has not proven the offence. One or two firms have withheld the names of certain workers and these firms have paid roundly for this omission. But we have found none who set down false figures.

Such falsification would be extremely dangerous, for the false statements would be of just those wages most likely to be complained of and investigated. These statements are signed by the employers and thus, in case of prosecution, a peculiarly damning piece of evidence would be in the hands of the Board. Moreover, these statements are usually prepared by the office staff, so that the deception would involve a confederate, and a confederate whose sympathies would naturally be with the fellow-workers thus cheated.

However, our experience of the employers of Ontario leads us to believe that it is not chiefly the fear of detection which makes these reports reliable. We have met them numerously, in conferences and in our work of inspection, and have found them to differ widely from one another in many ways, but to be essentially honourable and trustworthy in all their dealings with us.

Further, personal attention is given to such cases as require it. Toronto, as the largest city, takes most attention, and visits have also been paid to Aurora, Goderich, Guelph, Hamilton, Kingston, Kitchener, Lindsay, London, Meaford, Niagara Falls, Ottawa, Owen Sound, St. Catharines, St. Thomas, Stratford, Trenton, Uxbridge, Weston, Waterloo and Windsor. Mr. H. G. Fester has given much time to this work and it is largely because of his efforts that the sharpest difficulties have been amicably resolved.

The character and volume of our correspondence is thus shown:

Dictated letters	2,754
Letters received	1,662
Orders sent out	1,949
Form letters sent out	7,729
Question forms sent out	5,690

COLLECTION OF ARREARS

The Board has collected arrears due a number of workers, as follows:

Firms concerned	57
Employees concerned	67
Amount collected	$2,425 21
Largest amount to any worker	250 00
Smallest amount to any worker	1 00
Average amount	36 18

Other amounts have also been collected of which the particulars have not been reported.

The amounts of arrears collected year by year are:

1923	$1,706 60	1927	$6,601 02
1924	1,017 68	1928	7,384 15
1925	7,296 75	1929	1,349 47
1926	4,899 31	1930	2,425 21

The Board does not measure its success by the quantity of arrears collected. It aims at such an observance of its standards of wages that there shall be no arrears to collect. Until this perfect condition is attained it regards the payment of arrears as a wholesome discipline for offending firms, and a method of recouping its clients for earnings of which they have been unjustly deprived. It will be noted that the arrears for the year 1930, while somewhat more than for the preceding year, are much reduced from earlier years, in spite of the fact that more workers are concerned and that the administration has become more active. We take this as an evidence that the wage standards set in our orders increasingly prevail.

PERMITS

The permits in force are shown in the following table. They are so few as not to affect the general standards of wages, while allowing for a desirable flexibility in administration, and saving a number of handicapped women from dismissal.

Number of firms to whom issued	68
Number of permits expired	41
Number now in force	153
(*a*) For handicapped workers	126
(*b*) Re proportion of experienced workers	12
(*c*) Special apprenticeship	9
(*d*) Others	6

OTHER MATTERS

Three new orders were issued during the year; increasing the minimum wage in the laundries, dye workers and dry cleaning establishments in Toronto; including regulation of hours in retail stores in Toronto; and covering custom tailor shops in the five largest cities.

The Board wishes to acknowledge the sympathy and co-operation it has received from organized labour, from employers generally, and from the public. We are encouraged to believe that our work is in keeping with its object, to enable a working woman to live from her work, and has thus won such widespread approval and support.

Since the fiscal year closed one of our members, Mrs. Lydia M. Parsons, has been called hence by death. Our sense of loss and grief is expressed in a minute which we have attached to this report:

"The Minimum Wage Board wishes to record its appreciation of the worth and work of its late member, Mrs. Lydia M. Parsons, whose sudden death occurred on Sunday, February 8th, 1931. She had been a member of this Board from its inception, and always faithful to its purpose. While a representative of the employers and true to their interests, she was also a sincere and devoted friend of the working women of Ontario. She brought to her duties an uncommon equipment of experience and ability. She had travelled widely, was deeply read, was an excellent speaker, and had a wide circle of friends not only in Canada but in Britain and Europe. She was active in many things. During the great war, to which she sent three sons, she was one of the foremost in women's organizations and in recruiting. She had been a leading spirit and a trusted official in the Women's Institutes, the Canadian Authors' Club, the National Council of Women and the Girl Guides. She had represented the Provincial Government in immigration campaigns in England. She had attended as a Canadian representative international conferences of women in Geneva, Vienna and other old-world centres. Besides these more formal activities, she had taken a part in many other movements and carried on a succession of private kindnesses. She was tireless in good works, sacrificing herself always for others.

During her ten years' membership on this Board the other members learned to regard her with admiration and affection. Her unfailing courage in the face of difficulties, her persistent labours in spite of failing health, her ready response to any appeal of friendship or need, her pleasant disposition and her genuineness of character won all our friendship.

We offer our deep sympathy to her surviving children, for their loss is also our loss, and we share with them the treasure of a bright and lasting memory."

J. W. Macmillan,
Chairman.

Margaret Stephen,
H. G. Fester,
R. A. Stapells,
Minimum Wage Board.

PROVINCE OF ONTARIO

Department of

Northern Development

Report of Operations under The Northern Development Act, R.S.O. 1927, and The Colonization Roads Act, R.S.O. 1927

AND AMENDMENTS

For the Year Ending 31st October

1930

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO
SESSIONAL PAPER No. 41, 1931

ONTARIO

TORONTO:
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1931

TO HIS HONOUR WILLIAM D. ROSS, ESQ.,
Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOUR:

The undersigned has the honour to present Report on Operations under The Northern Development Act, R.S.O. 1927, and amendments, for the fiscal year ending 31st October, 1930.

WM. FINLAYSON,
Minister.

Toronto, Ontario, February 5th, 1931.

HONOURABLE WILLIAM FINLAYSON,
Minister of Lands and Forests.

I have the honour to present herewith Report on the Operations of the Department of Northern Development for the fiscal year ending 31st of October, 1930.

C. H. FULLERTON,
Deputy Minister.

Toronto, February 5th, 1931.

Electoral District	Cutting and Burning (New Road) Miles	Side Brushing (Existing Road) Miles	Stumping and Grubbing Miles	Cross Lay Miles	Grading		Ditching Cu. Yds.	Gravelling			Clay Surfacing		Crushed Rock			Dragging Miles	Guard Rail Erected, Lin. Ft.	Culverts		
					New Miles	Repairs Miles		New Length Miles	Gravel No. Cu. Yds. Used	Repairs Length Miles	Length Miles	No. Cu. Yds. Clay Used	No. Yds. Crushed	No. Yds. Hauled	Length of Road covered Miles			Wood	Stone or Concrete	Metal
ALGOMA	13.10	110.00	36.40	.40	23.50	203.60	29,955	191.00	117,648	130.10	85.20	20,300	....	1,015	.90	41,199	1,996	128	32	47
COCHRANE NORTH	56.09	204.00	159.00	.04	22.29	82.13	964,305	123.44	136,512	143.00	174.87	314,834	....	54	....	36,384	546	203	......	233
COCHRANE SOUTH	12.35	111.63	15.50	.25	43.75	46.58	184,605	54.50	88,482	135.80	30.63	42,292	55	4,031	2.95	18,691	2,747	67	......	154
FORT WILLIAM	46.30	92.70	29.90	....	25.20	94.70	21,851	48.70	42,987 9,870	16.40	5.17	7,232	....	4,673	....	13,806	9,486	351	20	66
KENORA	60.00	301.00	46.30	1.80	47.00	454.00	57,444	52.00	45,400 42,466	180.00	7.90	25,910	....	....	....	6,875	7,972	276	16	25
MANITOULIN	4.70	35.01	.50	....	....	184.30	23,522	42.51	72,962	398.26	9.77	3,293	....	2,179	5.50	5,394	2,914	29	10	117
MUSKOKA	3.22	106.75	3.98	....	5.80	4.50	2,810	17.85	54,648 17,718	46.29	....	....	....	5,940	....	11,492	23,835	13	......	103 56†
NIPISSING	13.50	86.62	4.75	....	7.90	....	12,230	41.48	22,984 2,594	11.50	8.75	5,711	....	22	....	19,290	200	27	1	5
PARRY SOUND	12.68	212.00	14.21	....	19.60	6.25	6,045	38.80	69,113 46,598	183.15	6.00	2,333	....	2,234	....	25,840	13,550	37 17*	1	263
PORT ARTHUR	12.90	140.70	14.65	....	25.90	33.30	51,268	59.70	70,119 18,100	....	17.60	26,361	22,544	22,544	10.00	16,221	14,998	261	98	139
RAINY RIVER	48.82	204.03	39.68	.68	33.48	37.17	175,568	141.70	118,542 29,952	98.82	8.31	12,083	....	300	.13	14,367	358	176	2	76
RENFREW NORTH	8.00	48.00	.10	....	23.00	.82	470	12.47	6,465 980	....	2.40	3,244	....	27,715	11.00	11,580	5,565	5 3*	......	8
SAULT STE. MARIE	5.60	56.70	8.50	1.50	67.60	110.30	11,075	61.00	65,499	20.60	34.40	9,095	....	75	.10	14,272	29,311	16	20	54
STURGEON FALLS	18.20	61.00	8.52	.21	13.86	40.87	34,597	99.44	38,479 16,406	109.87	4.90	3,611	....	....	....	18,532	222	69 33*	1	19
SUDBURY	55.90	159.66	46.66	2.74	195.63	40.10	239,025	327.70	87,925	122.47	44.75	17,404	25,413	39,958	16.68	16,339	2.143	281	15	82
TEMISKAMING	15.14	118.50	21.96	.45	21.24	123.32	35,607	83.00	104,944	192.00	11.25	8,031	2,110	2,332	....	14,981	17,533	106 54*	1	142 2*
TOTALS	386.50	2,048.30	450.61	8.07	575.75	1,461.94	1,850,377	1,395.29	1,327,393	1,788.26	451.90	499,034	50,122	113,072	47.26	285,263	133,376	2,045 107*	217	1,533 56† 2*

Repaired* Extensions †

Bridges		Cut and Fill, Cu. Yds.	Rock Excavation, Cu. Yds.	Miscellaneous
No.	Description			
23 22 64	New Repaired Painted	121,289	4,144	63,000 trees planted for protection of cuts and fills; guard rail painted; ditches cleaned; 75 new signs painted and erected; weeds cut; 168 signs repainted; surveys, 25 miles; tap ditches, .3 miles; road scarified, 120 miles; shoulders placed on 24 miles.
32	Timber	45,005	543	Old crosslay removed; 42.94 miles ditch excavation spread; car house and two rafts built; guard rails extended; 15,720 cu. yds. of gravel put in stock piles; survey of Ground Hog River.
20 8	Constructed Repaired	77,950	5,222	Culverts cleaned out and opened; holes in pavement repaired; guard rails repaired and painted; signs erected: surveys made.
19 3 4	New Repaired Painted	115,656	6,517	New 150-ft. steel span on masonry piers erected at International Boundary over Pigeon River and old timber bridge torn down; roads widened: grass and weeds cut; addition to office built; signs painted and erected; culverts thawed out.
5 12 7	New Repaired Painted	154,545	44,206	56 miles of ditches cleaned; 708 miles of road rolled; 1,100 cu. yds. rip-rap; 2,800 ft. cable guard rail; 300 posts painted; 45 miles of surveys.
10 2	New Repaired	32,849	8,240	Weeds cut, 106 miles; raked, 407 miles; guard rail repaired, 270 ft.; culverts repaired, 9; creek cleaned, 2 miles; ferry at Little Current.
5	Steel and Concrete	135,369	7,075	Several surveys made; 11.9 miles treated with dust layer; snow and ice removed from culverts; creeks cleaned out; bridges painted; bridge widened; guard rails erected and repaired.
2 1	New Repaired	4,781	3,378	430 cu. yds. of rock put in fills; 5 miles of grass and weeds cut on sides of roads; signs erected and painted.
12 11 1	New Repaired Widened	272,545	31,275	Surveys 61.5 miles trial line; 40 miles final location; dust layer on 16.7 miles; guard rails erected, repaired and painted; sign posts erected; grass and weeds cut.
5 5 4	New Repaired Painted	97,675	50,606	Ten miles retread on Nipigon Highway; roads sidebrushed; grass and weeds cut and burned; culverts and ditches cleaned out; signs erected and painted.
17 33	New Repaired	23,297	4,876	Grass and weeds cut; signs painted and erected; curves well banked; large ditches constructed; new offices rented for headquarters.
1	Steel Repaired	7,954	1,300	Rock fill, 1,420 cu. yds.; farm fence removed and rebuilt, 1,758 rods; page fence built, 4,350 ft.; survey of main road; 11 miles of retread; curves elevated and graded.
1 2	New Repaired	86,791	700	Rip-rap, 157 cu. yds.; guard rail painted, 86,200 ft.; cable stretched, 21,200 ft.; ditches cleaned, 23 miles; signs painted, 280; weeds cut, 14.5 miles; trees planted, 35,000; posts set, 400; signs erected, 100; creek cleaned, 1.5 miles; survey, 10.3 miles; side piers timbered, 98 ft.
9 15	New Repaired	25,758	7,056	One steel and concrete bridge 50-ft. span; 26.67 miles of offtake ditches cleaned; 39.25 miles of grass cut; rock fill, 2,244 cu. yds.; clay excavation, 1,000 cu. yds.; sharp turns eliminated.
9 15	New Repaired	117,571	14,005	Hand laid rip-rap, 940 yds.; rock hauled and piled, 2,320 yds.; slag hauled and spread, 1,797 cu. yds.; expansion joint filled, 8 miles; cold patching, 3½ miles.
34 3 26	Timber Concrete Repaired	52,857	5,607	Bridges protected from ice; road signs erected and painted; weeds cut and burned; culverts cleaned; 56 miles ditches cleaned out; 3.2 miles dry stone drain; 47 miles brush burned on road side; ice and wood cut for camps; ½-mile road cut to gravel pit.
206 157 79	New Repaired Painted	1,371,892	194,750	

DEPARTMENT OF NORTHERN DEVELOPMENT

MUNICIPAL AGREEMENT REPORT, 1929-1930

Districts	Cutting and Burning (New Road) Length Miles	Side Brushing (Existing Road) Length Miles	Stumping and Grubbing Length Miles	Cross Lay Length Miles	Grading New Road Length Miles	Re-grading Existing Road Length Miles	Ditching Cu. Yds.	Gravelling			Clay Surfacing		Crushed Rock			Dragging Miles	Guard Rail Erected, Lin. Ft.	Culverts			Bridges		Cut and Fill, cu. Yds.	Rock, Excavation, Cu. Yds.	No. of Municipalities
								New Gravel		Repairs															
								Length Miles	No. Cu. Yds. Used	Length Miles	Length Miles	No. Cu. Yds. Clay Used	No. Yds. Crushed	No. Yds. Hauled	Length of Road covered Miles			Wood,	Stone, or Concrete	Metal	No.	Description			
ALGOMA	....	14.10	.58	....	4.72	54.00	2,352	.79	14,201	80.43	......	26	....	....	....	228	382	39	13	14	1 4	New Repaired	867	....	10
COCHRANE NORTH	....	6.50	....	....	....	....	11,197	....	3,839	12.60	1.00	812	....	....	....	60	319	18	......	......	......	....	....	....	2
COCHRANE SOUTH	.50	.07	.50	....	.50	17.75	742	....	2,875	3.25	.25	85	....	564	.52	75	......	5	......	......	......	....	100	....	5
FORT WILLIAM	4.30	39.60	5.50	....	3.40	85.50	1.898	12.60	17,154	14.14	1.20	839	....	418	.50	5,826	288	98	52	14	2	New	6,059	56	5
KENORA	5.94	6.25	2.29	.17	5.00	16.50	3,178	4.95	4,197	13.23	.72	396	....	116	.25	118	72	48	1	8	......	....	1,276	....	3
MANITOULIN	....	13.02	....	....	.75	14.73	1.014	....	24,441	162.61	.43	441	....	48	....	440	185	22	5	7	......	....	1,410	....	12
NIPISSING	.38	15.79	1.02	....	4.44	34.51	3,422	4.67	7,099	11.87	.12	225	....	....	....	29	......	37	6	3	7	Repaired	....	148	2
PORT ARTHUR	3.64	66.63	2.88	....	1.20	23.29	2,555	9.26	8,833	14.25	......	....	....	....	....	1,860	......	51	3	31	7	Repaired	1,197	697	3
RAINY RIVER	9.58	65.10	7.37	.37	3.44	14.50	15,172	12.83	23,388	32.76	.57	714	....	....	....	2,912	......	94	......	8	1	Repaired	3,369	130	12
SAULT STE. MARIE	.25	4.05	2.77	....	2.70	86.83	9,116	1.92	5,364	28.74	......	....	....	328	50	90	828	15	10	4	2 2	New Repaired	5,163	....	4
STURGEON FALLS	....	26.13	.29	....	1.50	41.86	2,229	8.87	10,834	36.04	......	....	....	....	....	2,120	......	49	2	15	1 19	New Repaired	....	105	7
SUDBURY	....	13.96	....	....	.25	76.36	3,845	3.85	11,787	31.57	.50	425	....	1,000	.50	468	......	......	35	5	......	....	....	155	8
TEMISKAMING	6.63	26.34	2.19	....	4.37	139.81	17,010	3.56	25,100	65.00	1.09	726	....	63	.10	706	......	63	......	30	2 6	New Repaired	747	89	15
TOTALS	31.22	297.54	25.39	.54	32.27	605.64	73,730	63.30	159,112	506.49	5.88	4,689	....	2,517	2.37	14,932	2,074	539	127	139	8 46	New Repaired	20,188	1,380	88

SECTION 11 (B), ROADS AND BRIDGES

Chief Engineer's Report

On the Construction and Maintenance of Roads and Bridges carried on under the provisions of the Northern Development Act, R.S.O. 1927 and amendments, during the fiscal year ending 31st October, 1930.

The road and bridge work carried out by the Department of Northern Development under the above Act is confined to the Electoral Districts of Sturgeon Falls, Sudbury, Manitoulin, Algoma, Sault Ste. Marie, Temiskaming, Cochrane South, Cochrane North, Port Arthur, Fort William, Rainy River and Kenora, and that portion of the Electoral District of Nipissing lying north of the Canadian Pacific Railway, and to certain main roads in the Electoral Districts of Muskoka, Parry Sound, Renfrew North and that part of Nipissing lying south of the C.P.R.

Organization

Ten District Engineers, with headquarters as designated by Roman numerals I to X under the head of "District Reports," supervise the expenditure and work in the sixteen electoral ridings. There are several assistant engineers, instrument men and inspectors assisting the District Engineers.

Construction

Construction is mostly by day labour though some grading and nearly all the better type of surfacing is done by contract. In some districts ditching and clearing of right-of-way were done by station work. Several isolated settlements were given an outlet by the opening up of new roads. Where traffic has increased rapidly during the past several years main roads were relocated, rebuilt, and widened as necessary. Many new bridges were erected and several

Finished Retread Surfacing

old ones replaced by more permanent structures. Metal culverts of proper lengths and diameter were used to replace many of the old wooden culverts and small, narrow bridges.

Maintenance

A total of 3,740 miles of trunk and secondary trunk roads were kept in good shape during the entire season by the use of power graders of various types, drags, and team graders. A remarkable improvement on the most heavily travelled roads was noticeable during the tourist season.

Ferries

Several ferries owned and operated by the Department were kept in good condition and gave constant service. Those operated by individual owners also had a successful season.

Contracts

On the Ferguson Highway across the Townships of Perry and Armour, ten miles of clearing, stumping and grading were completed.

On the Pembroke-Mattawa Road, which is now considered part of the Trans-Canada Highway, twenty miles of new road were built to a width of thirty feet from Petawawa camp westerly, two railway crossings being eliminated.

On the Cochrane-Hearst road 11.5 miles were built west of Opasatika.

On the Nipigon Highway easterly from the city limits of Port Arthur, ten miles of 3-inch consolidated bituminous retread 20 feet wide were laid.

On the Pembroke-Mattawa Road westerly from the town of Pembroke, ten miles of 3-inch consolidated bituminous retread 20 feet wide were laid.

Stock Pile of Rock for Retread Surfacing

On the Ferguson Highway from Severn to Gravenhurst, a strip one foot wide and nine inches deep of consolidated bituminous retread was laid on each side of the 18-foot pavement a distance of 9.7 miles. Between Gravenhurst and Bracebridge the 3-inch bituminous retread surface, 20 feet wide, commenced in 1929, was extended 3.95 miles. Between Bracebridge and Huntsville, 18.9 miles of 3-inch bituminous retread surface, 20 feet wide, were laid. From the town limits of Huntsville north 3.8 miles of bituminous retread were laid.

On the Kirkland Lake-Swastika Road 3.46 miles of 3-inch consolidated black-base surface were laid after scarifying, reshaping and rolling the sub-grade.

Several bridge contracts were completed—the largest being the work at the southerly entrance to Bracebridge on the Ferguson Highway, consisting of two 45-foot spans, one 150-foot span and one 60-foot span steel and concrete structures along with an 18-foot concrete subway, a 360-foot retaining wall having an average height of 12 feet, and 560 feet of 6-foot concrete sidewalk.

Main Trunk Roads

The construction, improvement and maintenance of 1,472 miles of main trunk roads is entirely supervised and the cost borne by the Department. Assistance is given to the cities, towns and villages through which these roads pass. Some of the more important ones being the Ferguson Highway from Severn to Cochrane; the Cochrane-Hearst Road which was opened late in the season; the Pembroke-North Bay Road, and the North Bay-Sudbury-Sault Ste. Marie Road, all in Northeastern Ontario; while in Northwestern Ontario are the Nipigon Highway, the International Highway, the Fort Frances-Rainy River Road, the Kenora-Fort Frances Road (of which 50 miles remain to be constructed), the Kenora-Manitoba Boundary Road, and the Vermilion-Dyment Road. Over 200 miles of these roads were widened to 30 feet.

Statute Labour Township Roads

In townships having Statute Labour Commissioners there are over 1,100 miles of road towards which the contribution is dollar for dollar, and in addition to this many direct grants are given.

Settlers Roads

In townships having no organization whatever there are over 1,435 miles of road. In many of these townships roads were opened during the year at no cost to the settlers, many of whom were given employment on the work.

Mining Camp Roads

Roads to mining camps both in surveyed and unsurveyed territory received all possible attention.

Municipal Agreements—Organized Township Roads

Most of the townships which are organized operate under a municipal agreement towards which the Government contribution is 50 per cent. for overseer and road work and 25 per cent. for machinery. In these townships there are over 3,100 miles of road, and a report of this work for the season is given in tabulated form.

Railway Crossings

Every effort is being made to eliminate level railway crossings by relocating and building new sections of main roads, and the construction of subways and overheads.

Weeds

Co-operation was given the Department of Agriculture in many municipalities in removing harmful weeds.

Right-of-Way Clearing

Many miles of road were beautified by the removal and burning of stumps and brush from the sides of the road.

Signs

Attention was paid to removing old types of signs and replacing them with standard highway signs. The old standard signs were repainted.

Guard-Rails

On all fills, where necessary, guard rails were erected. Posts of uniform size, creosoted and painted white at the top, were used with two lines of ½-inch galvanized cable. Many of the old guard rail posts were repainted.

Drainage

Special attention was paid to drainage; larger size ditches being constructed and creeks cleaned out to provide proper outlets. In Rainy River District a large ditching machine was operated during the season with a view to providing a complete drainage system for the roads.

Purchase of Machinery, Equipment and Materials

Canadian firms, nearly all located in Ontario, were given preference when placing orders. Gravel and stone was purchased locally in each district.

Work Reports

A tabulated statement attached hereto gives details of the work during the year.

District Reports

No. I—Muskoka and Parry Sound—K. Rose, Huntsville

In this district certain trunk roads only come under the jurisdiction of the District Engineer.

The major construction of the year was on the Ferguson Highway—23 miles of 30-foot roadway, 10 concrete bridges up to 40-foot span, and one 96-foot and one 140-foot steel and concrete structures being constructed, and retread penetration surface placed on 26.55 miles, together with the diversion in the Town of Bracebridge, which included the bridge over the Muskoka River, consisting of two 45-foot spans, one 150-foot span, and one 60-foot span steel and concrete structures, and an 18-foot concrete subway. In connection with the Muskoka River Bridge, 360 feet of retaining wall of an average height of 12 feet, and

560 feet of 6-foot sidewalk were constructed. Ten miles of the above construction was done under contract, and the balance by day labour. In addition the shoulders were built up, and the curves elevated on 41 miles, preparatory to placing retread surface. The section from Huntsville to Emsdale, 16 miles, was treated with oil immediately after being gravelled, and proved very satisfactory.

Thirty-seven thousand three hundred and eighty-five lineal feet of standard cable guard rail were erected, and 182,703 cubic yards of gravel hauled—128,645 cubic yards of which were placed on the Ferguson Highway and 54,058 cubic yards on the lateral trunk roads.

Ferguson Highway Southerly Entrance to Bracebridge

The road from Parry Sound to Nobel, a distance of approximately seven miles, was straightened and widened to 24 feet, all rocky points and hummocks being eliminated, and gravelled.

Maintenance included the continual patrol of 386 miles of trunk road for the full season.

No. II, Nipissing, Sturgeon Falls and Renfrew North—G. A. White, North Bay

Nipissing—The work in this district included a seal coat over the eight miles of bituminous macadam between North Bay and Callander; rebuilding three miles of the North Bay-Sturgeon Falls Road; opening up one and a half miles of new trunk road; side-brushing 86 miles; gravelling and general maintenance and building a standard 30-foot concrete bridge over Duchesney Creek.

Sturgeon Falls—On the main trunk road between North Bay and Sudbury in this district, besides the constant maintenance, the following improvements were made: one and one-half miles rebuilt, three and one-half miles widened, and a steel and concrete bridge, 50-foot span, erected over Deer Creek.

In Martland Township two 150-foot span timber bridges were built.

Field-Martin River Road, five miles of new road were graded.

Hager-St. Charles Road, two miles were graded.

Other work consisted of cutting and burning 18 miles; side-brushing 61 miles; stumping and grubbing 8 miles; cutting grass and weeds 39 miles, and digging 27 miles of ditches.

Renfrew North—From Pembroke west 11 miles of retread 20 feet wide were laid on improved road, thence 23 miles of road were constructed 30 feet wide by contract. The Bisset Creek bridge approaches were completed by placing guard rails and fencing.

The Pembroke-Mattawa Road was constantly maintained and 48 miles of it side-brushed and burned. Surveys included 53 miles of preliminary and 23 miles of final location.

No. III, Sudbury and Manitoulin—E. J. Hosking, Sudbury

Sudbury District—The following is a list of the principal expenditures made in this district:

North Bay-Sudbury Road—Building three and one-half miles of diversion from the boundary of Hagar and Rutter west, with the exception of rock cuts, which were held over for winter construction work.

Soo-Sudbury Trunk Road 12 Miles East of Sault Ste. Marie

Sudbury-Chelmsford: Rebuilding by constructing a base one foot thick of crushed rock and field stone, covering this with clay, and gravelling eight miles.

Sudbury-Capreol Road: Rebuilding three and one-half miles of road by putting in a base of field stone and covering with clay and gravel.

Sudbury-Soo Road: Widening 10 miles to 30 feet wide from Copper Cliff Station west.

Chapleau-Devon Road extension: Cutting, burning, grubbing and grading, and partly gravelling, five miles.

One 45-foot span steel and concrete bridge was built over the Whitson Creek, on the Sudbury-Chelmsford Road.

Manitoulin District—The principal expenditures in this district were on the Little Current-Espanola Road where some 14 miles of crushed rock fines were hauled and spread on the road, and a certain amount of widening on the section across LaCloche Island.

Little Current-Gore Bay Road: Some three or four miles of this road were widened to 24 feet, not continuously, but in places where the road was narrowest and most dangerous.

One mile was widened in the Township of Sheguiandah, on the Little Current-Manitowaning Road.

On the section of the Sudbury-Soo Road in the Manitoulin District eight miles were widened, clay surfaced and gravelled, this being between Nairn and Espanola.

Four small concrete bridges were built on the Gore Bay-Little Current Road.

No. IV, Algoma and Sault Ste. Marie—G. J. Lamb, Sault Ste. Marie.

Algoma—The year was not marked by any particular item of road work of outstanding magnitude. The work of widening and standardizing the Soo-Sudbury Trunk Road was carried on somewhat extensively and only sections where relocations are contemplated remain for future operations. It is expected that within the near future a total of eight level railway crossings will be eliminated. During the season attention was given to placing additional road signs and improving those already erected, and removing advertising signs.

On roads other than the above considerable improvement went forward, particularly the Wharncliffe, the Iron Bridge-Parkinson, the Blind River-Parkinson and the Lee Valley roads.

No large bridges were built, but about thirty received attention.

Sault Ste. Marie—The principal item of new work was the extension of the Soo-Searchmont Road to Wabos, a distance of four and one-half miles.

The most important work undertaken was the widening and improving of existing roads radiating from the city of Sault Ste. Marie. The work included improvement of alignment, grade widening and gravelling on the "Twelve-mile block," the Soo-Searchmont Road as far as Island Lake, and the Haviland Bay Road.

Several miles of guard rail were erected and some repaired. Bush lands adjacent to main roads were cleaned up, thus adding to the attractiveness of the highways. Grass and weeds were cut along the roads.

No. V, Temiskaming—D. J. Miller, New Liskeard

The Ferguson Highway was widened and improved in many places. The Cobalt-Latchford Section under construction the previous year was completed early, and work was started on a diversion through Chamberlain Township north of Englehart, which will shorten the road by three miles and eliminate many steep hills and sharp turns. Three miles of this road were completed. North of Charlton several rock outcrops were removed to straighten the road and eliminate blind turns. In other places the road was widened to a 30-foot roadway and right-angled turns were rounded. 12,500 feet of two-strand guard rail were erected.

The Highway through the Town of Cobalt received a bituminous penetration surface.

A new road two and one-quarter miles in length was built to the Old Mission in Lorrain Township, and three miles of the Matachewan Road constructed.

Seventeen new timber bridges and one reinforced concrete bridge were erected in various parts of the district. Twenty-nine bridges were repaired and eight steel bridges painted.

Fifteen organized municipalities and eight townships with Statute Labour Boards received assistance on their roads equivalent to the value of their own work. In addition every assistance was given to settlers by opening up new roads and by widening, ditching and gravelling existing roads.

Of a total of 1,137 miles of roads, 318 miles were fully maintained and 67 miles casually maintained by the Department.

No. VI, North Cochrane District—C. Tackaberry, Cochrane

The season of 1929-30 was a busy one in North Cochrane district, in so far as the roads were concerned. There was a great deal of unemployment during the year and work was done to relieve this situation which ordinarily would have been left over until 1931. This is no doubt that the money spent on road work this year was a wonderful help to the settlers throughout this district.

Trucks were used for hauling gravel on the Trunk Road, and cut the gravelling costs in half. The piers of the Mattice Bridge over the Missinaibi River were damaged during the spring by ice and driftwood coming down the river. It is proposed to fully plate the piers where the damage was done and no further trouble is anticipated.

Possibly the most important work done during the year was the gravelling of the Trunk Road from Hunta to Smooth Rock Falls, a distance of 29 miles, thereby completing an all-weather road from Kapuskasing to Cochrane.

The completion of the Trunk Road west of Opasatika should also be included in most important work. There were 18.5 miles to build to connect the Trunk Road between Kapuskasing and Hearst. Eleven and one-half miles was done by contract, the balance of seven miles being done by day labour. Work consisted of ditching, grading, and claying through muskeg. The width of the roadway between ditches is 40 feet, while clay was put on 24 feet in width. It is hoped that this portion will be gravelled during the summer of 1931.

In addition to the new gravelling on the Trunk Road between Hunta and Smooth Rock Falls, the Trunk Road 16 miles south of Cochrane was regravelled, 14.5 miles west of Cochrane, and also between Smooth Rock Falls and Kapuskasing, a distance of approximately 40 miles. The Trunk Road between Driftwood and Smooth Rock Falls was again regravelled, a distance of 19 miles. Although this portion was newly gravelled during the winter it required regravelling during the summer, a light coat of 300 yards to the mile being applied.

Approximately 40 miles of Trunk Road was stumped and burned between the ditches and fences, and a large portion of this was ditched and the material spread, allowing for an increased width of road bed.

The main road between the boundary of Clute and Glackmeyer, a distance of 10 miles, was regravelled; also the main road in Glackmeyer, a distance of 19 miles. Portions of the Norembega Road were regravelled and ditched.

The Remi Lake Road was widened out, length of road being three miles. This road carried considerable traffic during the summer as Remi Lake is a popular summer resort, and the Forestry Department has an aeroplane base located at this point.

Portions of the Hearst-Coppell Road were reclayed and ditched. This road was extended 2 miles south of Coppell.

The main road between Lots 24 and 25 in Casgrain, commonly called the Hearst Lake Road, was ditched and regravelled a distance of eight miles.

In the preceding paragraphs only the trunk roads and main roads have been covered. The work was not confined to these by any means, as a large part of the appropriation was spent in the various townships. One particular road constructed in Pyne Township, between Lots five and four across Concessions 1 to 6 inclusive, was instrumental in letting about 50 settlers out. The work consisted of cutting and burning, grubbing and burning, ditching, grading and claying.

Taking the district all the way through, work was carried on in every township, and the reference made to Pyne Township is only one instance of where new roads, or the extension of roads, were the means of giving settlers an outlet.

There were 341.54 miles of road fully maintained, and 372.9 miles of road casually maintained, by the Department.

No. VII, South Cochrane District—D. Lough, Matheson

The major work of the fiscal year consisted of the laying of an asphalt pavement on the Swastika-Kirkland Lake Road; the completion of the Ramore-Matheson diversion of the Ferguson Highway; the relocation and construction of six miles of the Matheson-Monteith diversion of the Ferguson Highway; the relocation and construction of 16.1 miles of the Porquis Junction-Timmins Trunk Road.

Settlers and organized townships were given all possible assistance on township roads.

A continuous maintenance patrol system was in effect on the Ferguson Highway and main trunk roads.

No. VIII, Fort William and Port Arthur—A. J. Isbester, Fort William

Port Arthur.—The outstanding piece of work done in the Port Arthur district was the retread surface placed on the Nipigon Highway, starting at the city limits and extending for a distance of ten miles. The roadway was widened to 30 feet, and a retread surface, 20 feet wide, was laid. The rock was crushed during the winter, providing work at a period when it was greatly needed, and the surfacing done during the summer, without any undue interference with the traffic, which is very heavy.

Another item of note on the Nipigon Highway was the replacing of two high wooden bridges, in Sterling Township near Hurkett, with corrugated iron pipe—one of these pipes was 72 inches by 50 feet, and the other 30 inches by 50 feet. A fill was made in each case, giving a standard roadway, 30 feet wide, with guard rail posts on each side.

An important betterment was made on the Oliver Road about six miles out of Port Arthur. This is the main road used by tourists between Port Arthur and Kakabeka Falls, and carries very heavy traffic during the tourist season. A narrow bridge where several serious accidents had occurred was replaced by a triple 72-inch corrugated iron pipe culvert. A cutting was made through an abandoned railway embankment, eliminating a dangerous blind spot, and approximately one mile of road straightened and widened to 30 feet.

The Schreiber-Rossport Road was completed to Rossport, with the exception of the C.P.R. crossing at Selim, decision as to which is still in abeyance. This road, running as it does for several miles along the shore of Lake Superior, affords some wonderful scenery and will be very popular.

Fort William.—International Highway: three important diversions were carried to completion on this road during the year, the total amount of new road constructed being four miles.

At the Jarvis River a dangerous winding hill with a narrow bridge at the bottom was eliminated, and a standard 24-foot concrete bridge constructed to replace a narrow wooden truss, where several serious accidents had occurred.

At Cloud River and at Little Pine River, narrow winding stretches of the highway were replaced by a road up to the necessary standard.

International Highway Bridge over Pigeon River at Boundary Between Ontario and Minnesota

Another very important feature on the International Highway, was the replacing of the old wooden bridge over the Pigeon River at the International Boundary, by a steel span 150 feet in length with a 24-foot roadway, on concrete abutments. The cost of this structure was shared equally with the State of Minnesota.

The Shebandowan Lake Road towards Kashabowie was extended approximately four miles during the summer. The absence of a timber bridge makes a gap about half way along this stretch and it is the intention to build the bridge during the present winter.

Of a total of eleven hundred and six (1,106) miles of road in the district, three hundred and fifty-three (353) miles were fully patrolled, and forty-two (42) miles given casual maintenance.

No. IX, Kenora District and Dryden Sub-District—R. T. Lyons, Kenora

In the Kenora district the major operations have been the developing and extending of the main highways.

Seven miles of road were built from Amesdale to Richan and the people of Amesdale now have a direct connection with the Town of Dryden.

One and one-quarter miles of road were built from Hudson east towards Sioux Lookout. This road also includes the construction of a bridge with two 35-foot spans on cribs.

Work has been carried on on the Sioux Lookout to Dinorwic Highway continuously since August 6th, 1929. The road was extended four miles this year, giving a total mileage of 10 miles.

The settlement of Alcona was given an outlet to the main line of the Canadian National Railway this year by building a road from Alcona to Superior Junction, a distance of three miles.

The Ignace to Osaquan Road which is five miles in length was entirely regraded and gravelled.

The settlement of Dyment was connected to the Dryden District by the construction of five miles of road, extending west from Dyment.

Two camps operated this year on the Kenora to Fort Frances Highway and although they were chiefly engaged in finishing and gravelling, the road was extended two and one-half miles and 16 miles of tote road were cut in preparation for further construction.

Winter Construction Camp

Kenora to Manitoba Boundary section of the Trans-Canada Highway: Ten and one-half miles of right-of-way were cut and burned and seven and one-half miles of road were built, leaving approximately eight miles yet to build before the boundary is reached.

One hundred and eighty-one miles out of 535 miles of road in this district was under maintenance patrol.

As the summary indicates, great progress is being made in the connecting up of the various settlements. Considerable work was also done under the Municipal Agreements and on the 50-50 basis with Statute Labour Commissions.

No. X, Rainy River District—A. M. Mills, Fort Frances.

The Fort Frances-Kenora Road was extended to Nester Falls. This was the largest job in the district. A new diversion was made south of Log River eliminating a very sharp curve. Sixteen miles were covered with new gravel.

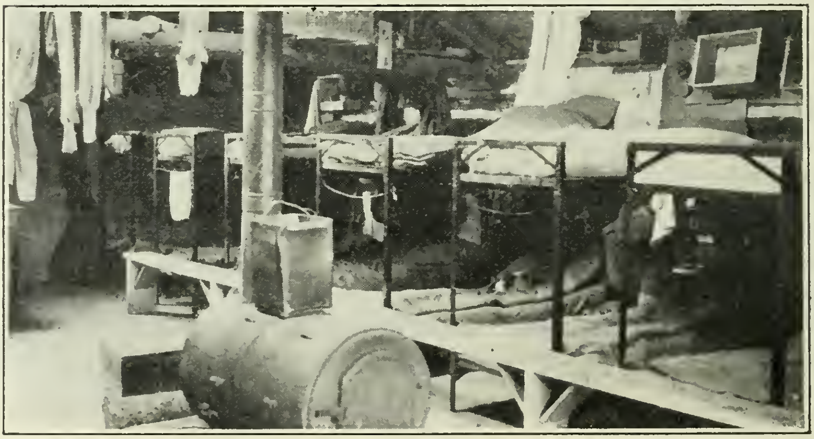
The road from Off Lake to Clearwater Lake was completed and gravelled. There was heavy tourist traffic over this road.

The Fort Frances-Rainy River Trunk Road was not only constantly patrolled but improved by being straightened and widened. Eight right-angled turns were eliminated by the construction of suitable curves. Only 10 miles of this road remain to be widened.

The large ditching machine was operated continuously from early in July, opening up five miles of drainage channels, not only reducing the cost of maintenance of the roads but also improving adjacent farm lands.

The mileage of road constantly maintained was 378 miles out of a total of 793 miles.

Dining Room Interior, Winter Construction



Sleep Camp Interior, Winter Construction

Creameries

The assistance in the development of dairying in Northern Ontario was continued by the Department by paying the salaries of buttermakers during the season at the creameries established at Cochrane, Larocque, Matheson, Ramore, Port Arthur, Lee Valley and Webbwood. The expenditure in this connection amounted to $4,883.95.

Seed Grain

The demand for seed grain fell off during 1930 compared with that of 1929. The seed distributed amounted to: oats 8,745 bushels, wheat 678½ bushels, barley 1,926 bushels. Total expenditure $14,453.40.

The crops generally were very good and the harvesting conditions excellent in each District, with the exception of Temiskaming, where, owing to the very wet season experienced, crops did not do as well as usual and a quantity of grain was not harvested. The applicants were very well satisfied with the seed supplied. As in the previous year the Alaska oats did exceptionally well in the north, about 8,000 bushels being supplied, this being largely in excess of the previous year. In the west the farmers prefer the western oats, the question of price being the consideration.

Cattle Purchase

During 1930 four carloads comprising 73 dairy cows of registered and high grade quality were purchased for resale to settlers, at a total cost of $9,198.78. These were shipped to the Sudbury (14) and Cochrane (59) Districts, and gave every satisfaction. The monthly repayments are being well kept up and during the year amounted to $9,790.84, principal and interest.

JAS. SINTON,
Chief Engineer, Department of Northern
Development, Ontario.

Toronto, February, 1931.

SUMMARY OF EXPENDITURE FOR THE NINETEEN YEARS ENDED 31st OCTOBER, 1930

THE NORTHERN DEVELOPMENT FUND

R.S.O. 1927, Chap. 36, Sec. 11

Works Undertaken	Summary of Expenditure, to May 23, 1912 Oct. 31, 1929	Expenditure for Year ended October 31, 1930	Total Expenditure to October 31, 1930
Section 11 (a) Works and Improvements	$2,100 00		$2,100 00
Section 11 (b) Roads and Bridges	35,574,720 94	$7,200,962 50	42,775,683 44
Section 11 (d) Farms	206,110 04		206,110 04
Section 11 (d) Assistance of Settlers; Fire Relief	329,099 50		329,099 50
Section 11 (d) Assistance of Settlers; Saw Mills	14,945 90		14,945 90
Section 11 (d) Assistance of Settlers; Feed Shortage	124,268 82		124,268 82
Section 11 (d) Creameries and Grain Elevators	75,697 34	4,883 95	80,581 29
Section 11 (f) Seed Grain	360,649 02	14,453 40	375,102 42
Section 11 (f) Agricultural Implements	46,826 22		46,826 22
Section 11 (h) Purchase of Cattle	83,636 15	9,198 78	92,834 93
Section 11 (j) Schools and Other Public Buildings	52,999 29		52,999 29
Section 11 (k) Work not otherwise provided for	4,519 27		4,519 27
Returned Soldiers' and Sailors' Settlement Act, 1917	1,185,568 02		1,185,568 02
	$38,061,140 51	$7,229,498 63	$45,290,639 14
Settlers' Loan Account	1,590,552 31	79,008 08	1,669,560 39
	$39,651,692 82	$7,308,506 71	$46,960,199 53

THE NORTHERN DEVELOPMENT FUND

R.S.O. 1927, Chap. 36, Sec. 8

Short Statement

April 16th, 1912	—To amount voted for Expenditure in N. & N.W. Ontario	$5,000,000 00
March 26th, 1918	" " " " "	5,000,000 00
May 31st, 1921	" " " " "	5,000,000 00
May 8th, 1923	" " " " "	5,000,000 00
April 14th, 1925	" " " " "	5,000,000 00
April 8th, 1926	" " " " "	5,000,000 00
April 5th, 1927	" " " " "	5,000,000 00
March 28th, 1929	" " " " "	5,000,000 00
April 3rd, 1930	" " " " "	10,000,000 00
		$50,000,000 00
April 12th, 1912 to October 31st, 1930	—By Expenditures for 19 years as per detailed statement	46,960,199 53
	Balance available 1st November, 1930	$3,039,800 47

DEPARTMENT OF NORTHERN DEVELOPMENT

Expenditure under Northern Development Act, Year Ended 31st October, 1930

R.S.O. 1927, Chap. 36, ($7,308,506.71)

Administration, Section 9 ($130,860.73)

Salaries of Permanent Staff	$98,800 40	
Salaries of Temporary Staff	7,259 37	
	$ 106,059 77	
Travelling Expenses, Supplies and Contingencies	28,460 18	
	$134,519 95	
Less Cash Advances 1928-29	3,659 22	
		$130,860 73

Roads and Bridges, Section 11 (b) ($7,070,101.77)

District No. 1—Engineer, K. Rose, Huntsville

Ferguson Highway	$947,725 45	
Parry Sound-Nobel Road	36,654 08	
Gravenhurst-Bala-Parry Sound Road	21,584 69	
Falkenburg-Utterson-Rosseau-Parry Sound Road	20,759 89	
Burks Falls-Parry Sound-Magnetewan Road	19,256 39	
Bracebridge-Baysville-Dorset Road	11,695 69	
Powassan-Restoule Road	10,530 49	
Trout Creek-Loring Road	8,220 90	
Sundridge-Magnetewan Road	3,516 74	
Emsdale-Sprucedale Road	2,307 60	
Equipment and Tools	30,932 19	
General Maintenance, Settlers' and Other Roads, Sundry Expenditure	78,341 84	
		$1,191,525 95

District No. 2—Engineer, G. A. White, North Bay

Callander-Mattawa-Pembroke Road	$287,263 82	
North Bay-Sudbury Road	89,295 42	
Ferguson Highway	27,752 99	
Field River Valley and Desaulnier Pike Lake Road	22,057 28	
Martland, Veuve River, Deer Creek, Guerin and Klein Bridges	16,159 17	
Field-Marten River Road	13,410 14	
Warren-Rutter Road	11,093 61	
Hagar-St. Charles Road	7,254 91	
Bigwood-French River Road	4,978 74	
Warren-River Valley Road	3,995 94	
Sturgeon Falls-Field Road	3,779 21	
Noelville-Bigwood Road	3,526 75	
Equipment and Tools	22,266 86	
General Maintenance, Settlers' and Other Roads, Sundry Expenditure	49,204 07	
		$562,038 91

District No. 3—Engineer, E. J. Hosking, Sudbury

North Bay-Sudbury Road	$92,745 91	
Sudbury-Chelmsford-Levack Road	87,617 31	
Espanola-Little Current Road	66,281 69	
Sault-Sudbury Road	52,944 53	
Sudbury-Capreol-Milnet Road	35,112 78	
Chapleau-Devon Road	34,243 03	
Little Current-Gore Bay Road	21,913 24	
Gore Bay-Meldrum Bay Road	19,996 89	
Chelmsford-Blezard Road	14,805 40	
Sudbury-Garson-Massey Bay Road	14,641 53	
Burwash Road	10,800 42	
Little Current-Manitowaning Road	10,406 10	
Espanola-Horse Hill Road	6,474 38	
Mindemoya-West Bay Road	5,093 87	
Gore Bay-Providence Bay Road	4,998 25	
Providence Bay-Manitowaning Road	4,938 50	
Shining Tree Road	4,906 50	
Sudbury-Long Lake Road	4,588 08	
Sandfield-Mindemoya Road	3,936 42	
Bidwell-Green Bay Road	3,768 20	
Nepewassing Lake Road	3,596 96	
Copper Cliff-Creighton Road	3,342 64	
Sudbury-McFarlane Lake Road	2,919 39	
Lee Valley Road	2,243 36	
Long Bay-Perivale-Spring Bay Road	1,642 07	
Lake Apsey Road	1,597 95	
South Bay Mouth Road	1,170 45	
Equipment and Tools	30,075 72	
General Maintenance, Settlers' and Other Roads, Sundry Expenditure	227,411 86	
		$774,213 43

Roads and Bridges—Continued.

District No. 4—Engineer, G. J. Lamb, Sault Ste. Marie

Sault-Sudbury Road	$240,119 00	
Sault-Batchewana Road	81,611 28	
Sault-Searchmont Road	74,905 53	
People's and Fourth Line Road	22,285 82	
St. Joseph Island Roads	21,581 35	
Korah Second Line Road	20,516 05	
Patton-Parkinson Road	20,090 34	
Wharncliffe Road	18,977 27	
Dean Lake Road	6,859 64	
Dunn Valley Road	6,560 02	
River Road	5,895 60	
Diamond Lake and Gordon Lake Road	5,087 92	
Point Aux Pins Road	4,712 14	
WaWa-Grace Mine Road	3,525 61	
Otter Lake Road	2,631 92	
Wanes Road	2,360 30	
White River Road	2,294 92	
Goulais Bay Road	2,126 33	
Shakespeare Road	1,864 50	
Steinke Bridge	1,842 11	
Gagnon Bridge	1,335 99	
Pine Island Roads	1,333 28	
Goulais Bay and People's Road	1,300 76	
Montgomery Bridge	1,288 40	
Lee Valley Road	1,281 08	
Lake Duborn Road	1,192 52	
Birch Lake Road	1,168 65	
Cranberry Creek Road	1,155 85	
Moose Creek Road	1,109 64	
Equipment and Tools	51,795 02	
General Maintenance, Settlers' and Other Roads, Sundry Expenditure	130,948 69	
		$739,757 53

District No. 5—Engineer, D. J. Miller, New Liskeard

Ferguson Highway	$226,542 00	
New Liskeard-Elk Lake Road	17,226 82	
Krugerdorf Road (For Ferguson Highway Diversion)	16,923 40	
Gowganda Road	9,986 77	
Old Mission Road	9,273 43	
Haileybury-West Road	8,172 45	
North Road	7,366 22	
South Mindoka Road	7,704 83	
South Lorrain Road	6,907 31	
Elk Lake—Matchewan Road	6,800 96	
Milberta Road	4,196 38	
Elk Lake-Charlton Road	3,378 50	
Casey-Brethour Road	3,211 96	
Dixon Creek Bridge	3,304 19	
Charlton Bridge	2,989 48	
Crozier Bridge	2,783 15	
Lowe's Bridge	2,668 64	
Robertson's Bridge	2,063 34	
McNabb's Bridge	1,948 70	
North Temiskaming Road	1,940 25	
Equipment and Tools	25,582 80	
General Maintenance, Settlers' and Other Roads, Sundry Expenditure	141,164 83	
		$512,136 41

District No. 6—Engineer, D. Lough, Matheson

Ferguson Highway	$171,938 22
Road from Ferguson Highway to Kirkland Lake	163,441 99
Timmins-Porquis Junction Road	66,335 47
Teck-Larder Lake Road	14,362 67
Shillington-Hoyle Road	12,798 43
Porquis Junction—Iroquois Falls Road	7,323 93
Sandy Falls Road	6,637 89

Roads and Bridges—Continued.

North Road	$5,170 02	
Monteith-Iroquois Falls Road	4,764 47	
Croft's Creek Road	3,105 16	
Moose Creek Bridge	2,942 91	
Ansonville Road	2,431 35	
Timmins West Road	2,360 94	
Iroquois Falls-Nellie Lake Road	2,285 10	
Night Hawk Lake Road	2,267 14	
Dalton's Park Road	2,097 59	
Anchorite Road	1,800 91	
Munroe Road	1,578 36	
Equipment and Tools	26,263 55	
General Maintenance, Settlers' and Other Roads, Sundry Expenditure	91,068 18	
		$590,974 28

District No. 7—Engineer, C. Tackaberry, Cochrane

Cochrane-Hearst Road	$493,115 77	
Ferguson Highway	40,675 06	
Cochrane-Gardner Road	28,688 75	
Cochrane-Norembega Road	22,723 41	
Remi Lake Road	14,138 89	
Hearst-Ryland Road	13,514 10	
Pullen Station Road	6,799 10	
Hearst-Cappelle Road	6,018 43	
Lake Road	5,507 24	
River Road	1,613 50	
Equipment and Tools	53,472 34	
General Maintenance, Settlers' and Other Roads, Sundry Expenditure	533,896 69	
		$1,220,163 28

District No. 8—Engineer, A. J. Isbester, Fort William

Nipigon Highway	$216,267 41	
International Highway	86,264 70	
Schreiber-Rossport Road	67,574 79	
Dawson Road	25,595 48	
Kashabowie Road	24,665 53	
Onion Lake Road	20,956 62	
Pass Lake Road	11,809 22	
Silver Mountain Road	10,540 64	
Dog Lake Road	10,132 85	
Oliver Road	8,817 24	
Gorham-Ware Townline	7,565 41	
Current River-Kam Road	7,248 12	
Marks Road	5,161 61	
Upsala Road	3,947 97	
Gun Flint Road	3,699 03	
Hymers-Scoble West Road	3,445 83	
Arthur Street Road	3,196 28	
Dona-Finmark Road	3,132 37	
Kakabeka-Hymers Road	2,997 73	
Whitefish River Bridge	2,662 40	
Pearson Road	1,606 49	
Equipment and Tools	28,246 69	
General Maintenance, Settlers' and Other Roads, Sundry Expenditure	159,109 05	
		$714,643 46

District No. 9—Engineer, R. T. Lyons, Kenora

Kenora-Manitoba Boundary Road	$128,814 01
Kenora-Rainy River Road	125,415 32
Quibell-Dinorwic Road	41,939 27
Sioux Lookout-Dinorwic Road	38,385 93
Dryden-Richan Road	6,486 39
Kenora-Redditt Road	5,536 59
Pellatt Main Road	4,542 90
Patricia Sub-District Road	4,103 32

Roads and Bridges—Continued.

Ignace-Osaquin Road	$4,071 09	
Amesdale-Richan Road	3,902 94	
Alcona-Superior Junction Road	3,324 90	
Dry Gulley Bridge	2,487 72	
East Melick Road	1,199 71	
Equipment and Tools	41,698 37	
General Maintenance, Settlers' and Other Roads, Sundry Expenditure	74,343 49	
		$486,251 95

District No. 10—Engineer, A. M. Mills, Fort Frances

Fort Frances-Rainy River Road	$60,387 35	
Kenora-Rainy River Road	47,480 31	
Off Lake-Clearwater Road	8,376 81	
Arbor Vitae Road	6,421 92	
Attwood Bridge	6,335 72	
Devlin Road	4,587 93	
Emo-Off Lake Road	4,358 82	
Sleeman-Minahico Road	4,260 25	
Spohn Bergland Road	4,133 44	
Deerlock Road Extension	3,757 15	
Barwick Road	3,598 34	
Spohn Road	3,168 25	
Log River Bridge	2,407 11	
Mine Centre-Vermillion Lake Road	2,384 48	
Barnhart-Off Lake Road	2,177 75	
McInnes Creek Road	1,488 44	
La Vallee Road	864 05	
Equipment and Tools	11,108 60	
General Maintenance, Settlers' and Other Roads, Sundry Expenditure	101,099 85	
		$278,396 57

Creameries, Section 11 (D) ($4,883.95)

Cochrane, Laroque, Matheson, Ramore, Port Arthur, Lee Valley and Webbwood—Wages of Buttermakers	4,883 95

Seed Grain, Section 11 (F) ($14,453.40)

Seed, Freight, Services and Disbursements	14,453 40

Purchase of Cattle, Section 11 (H) ($9,198.78)

Cost of Cattle, Freight, Feed, Services and Disbursements	9,198 78

Settlers' Loan Account ($79,008.08)

F. Dane, Commissioner, Salary		$5,000 00	
Salaries of Permanent Staff		4,675 00	
		$9,675 00	
Net Amount of Loans issued	$67,450 00		
Disbursements	1,883 08		
		69,330 08	
			79,008 08
Total			$7,308,506 71

DEPARTMENT OF NORTHERN DEVELOPMENT

STATEMENT OF REVENUE FOR THE YEAR ENDED 31ST OCTOBER, 1930

	Capital	Ordinary	Totals
Section 11 (b) Roads			
Sale of Equipment, Gravel, Lumber, Supplies, Rentals, Refunds, etc.	$733 90	$941 17	$1,675 07
Section 11 (d) Assistance of Settlers: Feed Shortage			
Repayment of Principal	104 95	....	....
Interest	....	14 35	119 30

Statement of Revenue for the Year Ended 31st October, 1930—Continued.

Section 11 (f) Seed Grain			
Repayment of Principal	$18,574 36	....	....
Interest	....	$2,456 38	$21,030 74
Section 11 (f) Agricultural Implements			
Repayment of Principal	967 83	....	....
Interest	....	192 22	1,160 05
Section 11 (h) Purchase of Cattle			
Repayment of Principal	9,185 63	....	....
Interest	....	605 21	9,790 84
General Account			
Bank Interest	....	1,791 08	1,791 08
Settlers' Loan Account			
Repayment of Principal	68,413 27	....	....
Interest, Exchange, etc	....	24,033 93	92,447 20
Branch—Colonization Roads			
Casual Refunds	1,273 91	849 29	2,123 20
Totals	$99,253 85	$30,883 63	$130,137 48

DEPARTMENT OF NORTHERN DEVELOPMENT

Assets, 31st October, 1930

	Principal	Accrued Interest	Total
Notes Outstanding			
Section 11 (d) Feed Shortage	$51,206 69	$23,382 35	$74,589 04
Section 11 (f) Seed Grain	90,037 46	34,365 56	124,403 02
Section 11 (f) Agricultural Implements	17,741 08	6,799 51	24,540 59
Section 11 (h) Cattle Purchase	13,196 67	545 98	13,742 65
	$172,181 90	$65,093 40	$237,275 30
Settlers' Loan Account			
Loans outstanding	$573,626 51	$49,426 92	623,053 43
Total			$860,328 73

Contingent Assets

Roads: Land, Buildings, Plant Equipment, Motors, Tractors, etc	$524,660 96

W. Ll. Lawer,
Accountant.

Toronto, 8th November, 1930.

January 14th, 1931.

THE HONOURABLE WM. FINLAYSON,
Minister of Lands and Forests,
Parliament Buildings,
Toronto, Ont.

DEAR SIR:

I have pleasure in herewith enclosing Statement of the Operations of this Department for the year ending October 31st, 1930.

Taking the general conditions of the north country into consideration, you will observe that the settlers have done remarkably well in connection with their payments.

Yours very truly,

F. DANE,
Settlers' Loan Commissioner.

STATEMENT OF LOANS ISSUED

TO OCTOBER 31ST, 1930

Total Number of Applications Received:		
To October 31st, 1929	7,215	
Year ending October 31st, 1930	472	
		7,687

LOANS

Loans Issued:		
To October 31st, 1929	4,247	
(New) Year ending October 31st,1930	206	
		4,453
Amount granted		$1,526.205 00
Average Loan per settler		326 23
Amount applied for		3,037,377 00
Number of Loan issued		4,453
Number of Loans outstanding		2,312
Number of Loans paid in full		2,141

STATEMENT OF LOANS TO CREAMERIES AND OTHER LIKE ASSOCIATIONS

INCLUDED IN THE ABOVE STATEMENT

TO OCTOBER 31ST, 1930

Applications and Loans

	Amount Granted	Amount Owing
The Sudbury Dairy, Ltd	$24,000 00	$11,750 00
The Kenora Dairy Co-Operative Association, Ltd	13,000 00	13,000 00
Producers Co-operative Creamery Co., Ltd., Lavallee, Ont	3,500 00	1,633 34
The Matheson Co-operative Dairy Co., Ltd	6,890 00	4,333 63
The Cochrane Co-operative Dairy Co., Ltd	7,830 00	5,893 48
Northern Co-operative Co., Ltd., Rydal Bank, Ont	5,000 00	3,000 00
The Thunder Bay Co-operative Dairy, Ltd	16,200 00	16,200 00
Total	$76,420 00	$55,810 45

NOTE.—The standing of the Kenora Dairy Co-operative Association, which went into liquidation in 1922, and all property now under jurisdiction of Department of Northern Development, as outlined in our report of 1924, is as follows:

Principal	$13,000 00
Accrued Interest	1,405 25
Total	$14,405 25

PAYMENTS ON ACCOUNT OF INTEREST

	Accrued Interest Due	Interest Received	Per Cent.
Loans to Settlers	$407,504 79	$360,922 53	88 6
Loans to Creameries	17,366 43	14,521 77	83 6
Total	$424,871 22	$375,444 30	88 3

ON ACCOUNT OF PRINCIPAL

	Payments on Principal Due	Principal Received	Per Cent.
Loans to Settlers	$1,127,461 94	$931,968 94	82 7
Loans to Creameries	31,166 27	20,609 55	66 1
Total	$1,158,628 21	$952,578 49	82 2

TOTAL

	Payments Due	Payments Received	Per Cent.
Loans to Settlers	$1,534,966 73	$1,292,891 47	84 2
Loans to Creameries	48,532 70	35,131 32	72 3
Total	$1,583,499 43	$1,328,022 79	83 9

Interest Charges	$424,871 22	$1,526,205 00
Interest Payments	375,444 30	952,578 49
Interest Outstanding	$49,426 92	$573,626 51
Settlers	$46,522 26	$517,816 06
Creameries	2,944 66	55,810 45

STATEMENT OF LOANS ISSUED AND OUTSTANDING

District	Issued		Outstanding		
	No. of Loans	Issued	No. of Loans	Unpaid Principal	Unpaid Interest
Algoma	205	$72,510 00	127	$33,499 24	$1,941 15
Manitoulin	14	5,750 00	7	1,175 40	12 00
Nipissing	260	90,545 00	174	42,210 75	3,042 35
Sudbury	285	129,995 00	166	54,219 27	1,960 75
Kenora	456	157,265 00	248	61,171 62	5,312 65
Rainy River	326	110,225 00	162	35,375 07	2,420 83
Temiskaming	1,909	619,025 00	907	209,016 24	19,276 36
Thunder Bay	998	340,890 00	521	136,958 92	15,460 83
Totals	4,453	$1,526,205 00	2,312	$573,626 51	$49,426 92

	Issued
To 1929	$1,458,755 00
To 1930	67,450 00
	$1,526,205 00

STATEMENT OF RECEIPTS, NOVEMBER 1st TO OCTOBER 31st, 1930

RECEIPTS—ORDINARY

Date	Interest on Loans	Principal	Exchange	Miscellaneous
November, 1929	$1,598 53	$4,223 80		
December, 1929	1,059 69	2,973 16	$0.02	
January, 1930	1,584 43	3,918 97		
February, 1930	1,903 42	6,038 19	42	$84 36
March, 1930	1,940 36	5,440 36		
April, 1930	2,583 79	7,610 36	75	
May, 1930	2,292 61	8,587 52	1 06	
June, 1930	2,386 78	6,983 76	25	
July, 1930	2,272 73	5,609 48	15	
August, 1930	2,134 78	6,126 68	90	
September, 1930	2,140 23	6,025 38	25	
October, 1930	2,047 98	4,875 61	44	
Totals	$23,945 33	$68,413 27	$4.24	$84.36

SETTLERS' LOAN COMMISSIONER

Statement of Expenditure, Year Ending October 31st, 1930

Salaries		
Dane, F., Commissioner	$5,000 00	
MacLean, A. E., Senior Clerk	2,500 00	
Jack, F. M., Stenographer	1,200 00	
Wilson, F. L., Stenographer	975 00	
		$9,675 00
Office Expense		
Stationery and Printing	$603 36	
Typewriter rent and repair	44 50	
Postage	5 00	
Telegrams	7 35	
Legal Expense	25 00	
		685 21
Travelling Expense (A. E. MacLean)		160 00
Outside Expense		
Barr, J. C.	$85 97	
Barnes, E. H	6 00	
Bastien, J. A	99 25	
Cragg, W. V.	68 00	
Grigg, Albert	72 30	
Hough, Wm.	50 75	
Hughes, T.	137 70	
Owens, H. B	312 70	
Smith, D.	43 60	
Teasdale, R. A.	22 00	
Van Horn, L. E.	76 45	
Wigle, R. G	41 60	
Wilson, S. H	21 55	
		1,037 87
		$11,558 08

SUMMARY OF EXPENSES TO OCTOBER 31st, 1930

	To October 31st, 1929	Year ending October 31st, 1930	Total
Salaries	$116,258 16	$9,675 00	$125,933 16
Travelling expenses	1,099 85	160 00	1,259 85
Office expenses	11,246 95	685 21	11,932 16
Outside expenses	3,138 43	1,037 87	4,176 30
	$131,743 39	$11,558 08	$143,301 47
Refund on overpayments	53 92	....	53 92
Totals	$131,797 31	$11,558 08	$143,355 39

ENGINEER'S REPORT

On the Operations of the Colonization Roads Branch during the Fiscal Year Ending October 31st, 1930

Supervised by and under the direction of nine Departmental Inspectors, Direct Grant and By-law expenditures under the Colonization Roads Act were made in the Northern Townships of the Counties of Addington, Frontenac, Hastings, Lanark, Leeds, Ontario, Peterborough, Renfrew, Simcoe, Victoria and Haliburton and Townships in the Districts of Muskoka, Nipissing and Parry Sound.

Direct Grants

One hundred and seven organized municipalities and thirty-seven unorganized townships were assisted by one hundred per cent. Departmental grants to aid in constructing and maintaining their roads.

A summary of the work accomplished by direct grant expenditures follows:

Employed 9,377 men and 3,029 teams; cutting new road 38.6 miles; sidebrushing old road 121.8 miles; stumping and grubbing 35.3 miles; grading 46.9 miles; regrading 187.6 miles; ditching 71.2 miles; surfacing—with gravel, new road 99.6 miles, old road 166.2 miles, with clay 10.1 miles, with crushed stone 23.7 miles; dragging 4,207 miles; guard-rail erected 5,193 lineal feet; culverts installed—wood 414, stone and concrete 65, metal 150; bridges—erected and repaired 36; excavation—earth 99,754 cubic yards, rock 122,098 cubic yards.

Road By-laws

Municipalities expending money on road work were encouraged by the Department to pass Colonization Roads By-laws in order that they might participate in the benefits authorized by the Act with the result that one hundred and eleven municipalities passed the necessary by-laws and were reimbursed to the extent of fifty per cent. of their total expenditure under the by-law on road work.

A summary indicates that employment was given to 12,636 men and 5,962 teams and the work included cutting and burning new road 13.5 miles; sidebrushing existing road 258.5 miles; stumping and grubbing 25.8 miles; grading new road 24.9 miles; regrading old road 1,004.3 miles; ditching 53.1 miles; surfacing—with gravel, new road 41.7 miles, old road 563.2 miles, with clay 38.1 miles, crushed rock 37.9 miles; dragging 11,056 miles; guard rail erected 4,883 lineal feet; culverts installed—wood, 893 stone or concrete 172, metal 297; bridges—erected 37, repaired 26; excavation—earth 70,559 cubic yards, rock 15,212 cubic yards.

Road Machinery and Equipment By-laws

Seventy-four municipalities purchased road-making machinery and equipment including graders, drags, shovels, lumber, culverts, cement, etc., under by-law and were reimbursed by an amount equal to 25 per cent. of the authorized expenditure under the by-law.

Road Overseer By-laws

Road Overseers were appointed by 41 municipalities under by-law and the Government contributed to the extent of 50 per cent. of the total amount expended under the by-law up to a maximum of $400.00.

Equipment

Equipment furnished by the Department in addition to ordinary camp supplies and small tools included dump trucks, portable air compressors equipped with jack-hammers and one light power maintenance grader. The expenditure for this heavier equipment has been amply justified by the quality and quantity of the work accomplished.

Expenditures

Construction, maintenance (including machinery and equipment)	$322,368 51
Colonization roads By-laws	247,990 97
Inspection	18,642 74
Storage and insurance	399 13
Engineering and surveying	396 45
	$589,797 80

Roy G. Sneath,
Engineer, Colonization Roads.

Toronto, January, 1931.

ANNUAL REPORT

OF

The Commissioner of the Ontario Provincial Police

1930

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO

SESSIONAL PAPER No. 42, 1931

ONTARIO

TORONTO
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1931

TO THE HONOURABLE WILLIAM DONALD ROSS, ESQ.,
Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOUR:

The undersigned has the honour to present to Your Honour the Report of The Commissioner of the Ontario Provincial Police for the year ending 31st October, 1930.

Respectfully submitted,

WILLIAM H. PRICE,
Attorney-General.

Attorney-General's Department.

ONTARIO PROVINCIAL POLICE

Commissioner

Major-General V. A. S. Williams, C.M.G.

Assistant Commissioner

A. Cuddy

Staff Inspectors

W. C. Killing E. T. Doyle A. Moss

Criminal Investigation Branch

J. Miller, Senior Inspector

Inspectors

A. B. Boyd W. H. Stringer A. H. Ward
E. D. L. Hammond E. C. Gurnett, M.M.

Liquor Control Investigation Branch

F. E. Elliott, Chief Inspector

Inspectors

F. B. Taber H. Graham

Motorcycle Patrol

J. A. Grant, Inspector-in-Charge

Area Inspectors

F. G. Jerome T. G. P. Lucas S. Hunter

No. 1	District,	Windsor............	District	Inspector	S. Oliver.
No. 2	“	London............	“	“	H. Gardner, M.M.
No. 3	“	Hamilton...........	“	“	C. A. Jordan.
No. 4	“	Niagara Falls.......	“	“	C. F. Airey, M.S.M.
No. 5	“	Toronto............	“	“	A. R. Elliott.
No. 6	“	Kitchener..........	“	“	E. A. Rae.
No. 7	“	Barrie.............	“	“	J. H. Putman.
No. 8	“	Belleville...........	“	“	W. H. Lougheed.
No. 9	“	Ottawa............	“	“	A. H. Palmer.
No. 10	“	Cobalt.............	“	“	W. T. Moore.
No. 11	“	Sudbury...........	“	“	P. Walter.
No. 12	“	Port Arthur........	“	“	W. J. Ingram.

Annual Report of the Commissioner of the Ontario Provincial Police, 1930

Ontario Provincial Police,
Headquarters, Toronto,
March 6, 1931.

The Honourable the Attorney-General,
Parliament Buildings, Toronto, Ontario.

Sir,—I have the honour to submit herewith my Annual Report for the year ending October 31st, 1930.

Strength and Distribution of the Force on October 31st, 1930

	Commissioner's Office	Crim. Invest. Branch	L.C.I. Branch	Motorcycle Patrol	Headquarters Garage	No. 1 District Windsor	No. 2 District	No. 3 District	No. 4 District	No. 5 District	No. 6 District	No. 7 District	No. 8 District	No. 9 District	No. 10 District	No. 11 District	No. 12 District	Algonquin Park	Total Strength
Commissioner	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Asst. Commissioner	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Staff Inspectors	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3
Accountant	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Inspectors, C.I.B.	...	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6
Chief Insp., .C.I.B	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Inspectors, L.C.I.B.	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
Inspector, i/c M.C.P.	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
District Inspectors	...	...	...	...	...	1	1	1	1	1	1	1	1	1	1	1	1	1	13
Area Insp., M.C.P.	...	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3
Sergeants	...	...	...	...	...	2	1	1	1	1	1	1	1	2	2	1	1	...	15
Provincial Constables	1	...	...	...	...	18	17	6	17	19	16	14	12	22	20	14	14	...	190
Provincial Constables N.M.C.P.	...	...	...	...	...	...	...	...	...	...	...	2	...	...	3	3	...	...	8
Provincial Constables M.C.P.	...	...	...	81	...	...	...	...	...	...	...	...	...	...	...	...	...	...	81
Special Constables (Permanent)	...	...	...	...	...	...	2	1	...	2	2	1	4	3	1	...	...	...	16
Special Constables (Temporary)	1	...	1	...	...	...	...	1	...	...	...	...	...	1	...	...	...	...	4
Totals	7	7	4	85	...	21	21	10	19	23	20	19	18	29	27	19	16	1	346
Insp. of Automobiles	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Chauffeurs and Mechanics	...	...	...	...	11	2	1	1	1	...	2	1	1	1	1	1	1	...	24
Clerks, etc.	9	1	1	3	...	1	1	1	1	1	1	1	1	1	1	1	1	...	26
Grand Totals	16	8	5	88	12	24	23	12	21	24	23	21	20	31	29	21	18	1	397
Automobiles	...	...	...	...	16	3	3	2	5	...	2	2	1	3	3	2	1	...	43
Motor Cycles	...	...	...	...	...	...	...	...	...	...	...	2	...	...	3	3	...	...	8

Location of Officers

Location	Officers	Sergeants	Prov. Constables	Prov. Constables M.C.P.	Spec. Cons. (Perm.)	Spec. Cons. (Temp.)	Chauffeurs	Cars or Motor cycles
Headquarters:								
Toronto	17		1	1		2	11	16
No. 1 District:								
Windsor	1	2	13	1			2	3
Amherstburg			2					
Leamington			2	1				
Belle River			1					
Essex				2				
Maidstone				1				
No. 2 District:								
London	2	1	3	1			1	3
Chatham			2	1	1			
Tilbury			1	1				
Sarnia			3	1				
St. Thomas			3	1				
Woodstock			1	1				
Brantford			2	1				
Simcoe			2		1			
Thamesville				1				
Ingersoll				1				
Melbourne				1				
Dresden				1				
Lambeth				1				
Blenheim				1				
Paris				1				
Tillsonburg				1				
Iona				1				
No. 3 District:								
Hamilton	1	1	4		1	1	1	2
Milton			2					
Palermo				1				
Freelton				1				
Waterdown				1				
Dundas				1				
Bronte				1				
Stoney Creek				1				
Hamilton Beach				1				
Oakville				1				
Burlington				1				
No. 4 District:								
Niagara Falls	1	1	4				1	5
Ridgeway			2	1				
Crystal Beach			1					
Bridgeburg			2					
Welland			2	1				
Dunnville			2	1				
St. Catharines			2					
Queenston			1					
Grimsby			1					
Beamsville				1				
Stamford Centre				1				
Port Colborne				1				
Caledonia				1				
St. Davids				1				
No. 5 District:								
Toronto	2	1	16		2			
Brampton			1	1				
Cooksville			1	2				
Oshawa			1					

LOCATION OF OFFICERS—Continued

Location	Officers	Sergeants	Prov. Constables	Prov. Constables M.C.P.	Spec. Cons. (Perm.)	Spec. Cons. (Temp.)	Chauffeurs	Cars or Motor cycles
Mimico				2				
Whitby				1				
Greenbank				1				
Scarboro				1				
Richmond Hill				1				
Aurora				1				
Islington				1				
Port Credit				1				
Birchcliffe				1				
No. 6 District:								
Kitchener	1	1	5	1			2	2
Walkerton			1	1				
Wiarton			1					
Goderich			1					
Stratford			2	1	1			
Listowell			1					
Palmerston			1					
Guelph			1	1	1			
Meaford			1					
Owen Sound			1	1				
Hanover			1					
Mitchell				1				
Durham				1				
Shelbourne				1				
No. 7 District:								
Barrie	1	1	2	1			1	4
Alliston			1					
Midland			1		1			
Orillia			1	1				
Wasaga Beach			1					
Collingwood			1					
Cannington			1					
Orangeville			1					
Bracebridge			2					
Huntsville (N.M.C.P.)			1					
Gravenhurst (N.M.C.P.)			1					
Parry Sound			1					
Powassan			1					
Burks Falls			1					
Bradford				1				
No. 8 District:								
Belleville	1	1	2	2			1	1
Bancroft			1					
Madoc					1			
Marmora					1			
Picton			1					
Lindsay			2					
Haliburton					1			
Peterborough			1	1				
Cobourg			2					
Brighton			1					
Bowmanville			1	1				
Napanee			1	1				
Enterprise			1					
Colborne				1				
Port Hope				1				
No. 9 District:								
Ottawa	1	1	2				1	3
Fitzroy Harbour			2					

LOCATION OF OFFICERS—Continued

Location	Officers	Sergeants	Prov. Con. stables	Prov. Con- stables M.C.P.	Spec. Cons. (Perm.)	Spec. Cons. (Temp.)	Chauf- feurs	Cars or Motor cycles
Casselman						1		
Rockland				2		1		
Cornwall		1	4	1				
Morribsurg			1	1				
Renfrew			1					
Pembroke			1					
Eganville			1					
Smith's Falls			1	1				
Carleton Place				1	1			
Brockville	1		1	1				
Gananoque			1					
Prescott			2	1				
Hawkesbury			1					
L'Orignal					1			
Lancaster			1					
Alexandria			1					
Kingston			2	1				
Sharbot Lake					1			
Arnprior				1				
Kemptville				1				
No. 10 District:								
Cobalt	1	1	1				1	3
Haileybury (N.M.C.P.)			1					
South Porcupine			1					
Ansonville			1					
Porquis Junction (N.M.C.P.)			1					
Elk Lake			1					
Larder Lake			1					
Timmins			1					
Kirkland Lake			1					
Gowganda			1					
Kapuskasing			2					
Englehart			1					
Boston Creek			1					
North Bay			1		1			
North Bay (N.M.C.P.)			1					
Sturgeon Falls			1					
Temagami			1					
Cochrane		1	2					
Coral Rapids			2					
Hearst			1					
Fraserdale			1					
No. 11 District:								
Sudbury	1	1	4				1	2
Sudbury (N.M.C.P.)			2					
Foleyet			1					
Capreol			1					
Little Current			1					
Sault Ste. Marie			2					
Sault Ste. Marie (N.M.C.P.)			1					
Blind River			1					
Chapleau			1					
Hornepayne			1					
Bruce Mines			1					
Gogama			1					

Location of Officers—Continued

Location	Officers	Sergeants	Prov. Con. stables	Prov. Con-stables M.C.P.	Spec. Cons. (Perm.)	Spec. Cons. (Temp.)	Chauf-feurs	Cars or Motor cycles
No. 12 District:								
Port Arthur	1	1	2				1	1
Fort William			2					
Nipigon			1					
Kenora			1					
Sioux Lookout			2					
Dryden			1					
Fort Frances			2					
Rainy River			1					
Gold Pines			2					
Algonquin Park Special District	1							

APPOINTMENTS AND RETIREMENTS

The following appointments to and retirements from the Force became effective during the year 1929-30.

Appointments

Inspector-in-Charge M.C.P.	1
Area Inspectors M.C.P.	3
Provincial Constables	39
Provincial Constables M.C.P.	86
Total	129

Retirements

	Re-signed	Per-mitted to Resign	Dis-missed	Super-annuated	Died	Struck off Strength	Total
Inspectors, L.C.I.B.					1		1
Sergeants				1			1
Provincial Constables	7		4			1	12
Provincial Constables M.C.P.	5	1	1				7
Provincial Special Constables	1			1			2
Total	13	1	5	2	1	1	23

The establishment shows an increase during the year of one hundred and twenty-six or 39.3 per cent. over the number on the strength at October 31st, 1929. This increase is accounted for by the addition of eighty-five Highway Traffic Officers and forty-one other ranks appointed to the regular police force.

New detachments were opened and members of the Force stationed at the following points:

Regular Force

Gananoque
Powassan
Frazerdale
Coral Rapids
Rockland
Fitzroy Harbour
Arnprior

Motor Cycle Patrol

Essex
Maidstone
Thamesville
Ingersoll
Melbourne
Dresden
Lambeth
Blenheim
Paris
Tillsonburg
Iona
Palermo
Freelton
Waterdown
Dundas
Bronte
Stoney Creek
Hamilton Beach
Oakville
Burlington
Beamsville
Stamford Centre
Port Colborne
Caledonia
St. Davids
Mimico
Whitby
Greenbank
Scarboro
Richmond Hill
Aurora
Islington
Port Credit
Birchcliffe
Mitchell
Durham
Shelbourne
Alliston
Bradford
Colbourne
Port Hope
Kemptville

To enable District Inspectors to exercise greater supervision and also to prevent overlapping, I found it necessary to reorganize and reapportion the territory of several Districts.

For purposes of administration the Province is now divided into twelve Districts numbered consecutively one to twelve with Headquarters as follows:

No. 1 District, Windsor
No. 2 District, London
No. 3 District, Hamilton
No. 4 District, Niagara Falls
No. 5 District, Toronto
No. 6 District, Kitchener
No. 7 District, Barrie
No. 8 District, Belleville
No. 9 District, Ottawa
No. 10 District, Cobalt
No. 11 District, Sudbury
No. 12 District, Port Arthur
Special District, Algonquin Park

TRANSFERS, ETC.

In keeping with the policy of the Department in maintaining its efficiency, a number of transfers of members of the Force have been made from one part of the Province to another. There has also been the usual number of transfers to fill vacancies caused by deaths, resignations, etc.

CONDUCT AND DISCIPLINE

The conduct and discipline of all ranks has with few exceptions been excellent, and the members of the Force have shown a commendable spirit of loyalty and efficiency.

COMMENDATIONS

Numerous letters of commendation have been received by me from members of the Government, private citizens, Police Departments, Crown Attorneys, Children's Welfare Societies in the Province, and many individuals and organizations in the United States, speaking in the highest terms of the work done and services rendered by all branches of the Force.

It is very gratifying to know that the services of the members of the Force, and their co-operation with the public and the many organizations they come in contact with, have been so much appreciated.

THE HEALTH OF THE FORCE

With the exception of colds and influenza caused through exposure to the inclement weather, there has been very little sickness among the members of the Force during the past year. The duties of the Motorcycle Patrol are more hazardous than the work of the constables attached to the regular detachments, and I regret to say that a number of them have been incapacitated from duty owing to serious injuries received whilst in the execution of their duties.

DEATH

I regret to have to record the death of Inspector A. E. Sarvis of the Liquor Control Investigation Branch, Toronto, which took place on March 15th, 1930, after a brief illness.

Inspector Sarvis had been connected with the enforcement of the liquor laws of the Province for more than twenty years and was known in that respect from one end of the Province to the other. He brought a ripe experience to bear on all matters connected with the enforcement of the liquor laws and was in every way an efficient and capable officer whose integrity was above question.

His death is a great loss to the Force.

GENERAL REMARKS

The total number of cases prosecuted by the regular members of the Force under all Acts and Statutes during the year was 14,594, an increase of 1,406 over 1928-29.

Prosecutions under the Criminal Code and all other Statutes (exclusive of the Liquor Control Act), numbered 8,079, an increase of 1,386 over 1928-29.

Prosecutions under The Liquor Control Act numbered 6,515, an increase of 20 over 1928-29.

Prosecutions instituted by the Motorcycle Patrol under the Highway Traffic Act numbered 8,948.

A classified return of all prosecutions, convictions, dismissals, etc., will be found on pages 35 to 42.

In comparing the work accomplished by the members of the Force for the year 1929-30, I find conditions generally satisfactory. You will note there has been an increase in the return of cases under the Criminal Code and other Statutes, the most noticeable increase being for offences of a trivial nature under the Criminal Code and other Dominion and Provincial Statutes. The more serious crimes have maintained about the same average as for the year 1928-29. The increase in prosecutions is accounted for by the increase in strength of the Force and to the fact that members of the County Constabulary are making returns of prosecutions to this office that had never been made in previous years, also by the inclusion of the Motorcycle Patrol, and not by any increase in lawlessness throughout the Province.

In Northern Ontario especially, crimes against the person and property have been noticeably low in number. This speaks well for the law-abiding spirit of the residents, considering the cosmopolitan make-up of the population comprising these northern districts.

In all prosecutions instituted by members of this Force, the utmost assistance has been given by county crown attorneys and police magistrates, and I find that the general good feeling between the members of the Force and the many law officers they come in contact with has been well maintained. The certainty of quick arrest, prompt trial, and certain punishment, is the most effective means whereby crime can be kept down to the minimum.

The number of investigations made by members of the Force in matters of every conceivable description was 33,427.

These investigations covered a great range, and in addition to complaints of infractions of the Criminal Code, Liquor Control Act, and other Statutes, they include requests to locate missing persons for private individuals and other police forces, foreign consuls and municipal authorities in Great Britain and Ireland, many European countries, and the United States.

Many of these investigations are merely routine, but to be carried out take up a great deal of the time of the members of the Department, and very often at considerable expense.

In making these investigations the members of the Force patrolled 1,431,012 miles. This does not include the mileage of motor cycles engaged in highway patrol.

The work of the Inspectors in charge of the various districts and their staffs, also of investigation branches, has again been most creditably carried out and will be found in greater detail in the reports submitted to my office by the officers in charge.

PATROL BY FORESTRY AIR SERVICE

By courtesy of the Department of Lands and Forests, an arrangement has been continued whereby the members of the Force on duty in Northern Ontario may be carried by the pilots of the Forestry Air Patrol when it becomes necessary to make investigations in a territory where there is no regular means of transportation, such arrangement to apply only to the regular patrols of the aircraft, unless some very special services are required, when permission has to be obtained from the Department Headquarters, Toronto.

The assistance has proven of a very great benefit and has enabled the members of the Force to give almost immediate attention to matters that, without the use of the air service, would have been delayed for an indefinite period.

TOURS OF INSPECTION

I have personally visited all District Headquarters, with the exception of Port Arthur, also many Detachments during the year and found conditions generally satisfactory, the work of the various branches of the Department being performed in an efficient manner and a feeling of confidence between the officers in charge of the territory and the general public.

The members of the Force have efficiently dealt with all matters brought to their notice in their respective districts, and it is gratifying to report that with very few exceptions the numerous problems in connection with law enforcement that confront the average member of the Force from time to time and require the most careful consideration and decision, have been dealt with in such a way as to leave very little to be desired.

Staff Inspectors attached to my office have constantly visited the many Headquarters and Detachments throughout the Province conferring with and advising all ranks on matters affecting law enforcement, also endeavouring to effect closer co-operation between the members of this Force and other police forces and the public.

INDUSTRIAL UNREST AND COMMUNISTIC DISTURBANCES

A number of instances of unrest fostered, it is alleged, by communists as a result of the unemployment situation occurred throughout the Province, but only at Port Arthur was there any necessity for special police attention.

On the morning of October 21st, 1930, a disturbance occurred outside of the police station that might have had serious results and in which the Chief Constable was knocked down and mauled by the crowd. The unemployed had on the previous day held a parade without permission of the city authorities and without the Union Jack at the head of the parade which the by-law called for. As a result the leaders were taken to the police office and released to be summoned to appear in court at a later date. The following morning a crowd of unemployed gathered outside the police station and relief office for the purpose of registering for relief work. The Chief Constable noticed in the crowd one of the ring-leaders of the parade of the previous day and decided to take him into custody. The crowd commenced to hoot and jostle, during which time the prisoner got away and the Chief was knocked down but not seriously hurt. Extra police were called and the crowd dispersed without any further trouble.

As a result of this disturbance and strong talk on the part of the communist element extra police precautions were taken, the detachment of this Force being considerably strengthened, a number of mounted Royal Canadian Mounted Police were drafted in, and a large number of special constables, mostly ex-service men, were sworn in in case of an emergency, but no further disturbance occurred.

CRIMINAL INVESTIGATION BRANCH

The Inspectors of the Criminal Investigation Branch have investigated and reported on a number of very serious occurrences, including the most important crimes such as murder, manslaughter, bank robberies, arson, burglaries, rape, cattle poisoning, etc. The majority of these investigations were made at the request of the Deputy Attorney-General or the Crown Attorneys of the counties concerned and, with few exceptions, have been successfully cleared up.

Much excellent work has been done by this Branch during the year.

During the racing season, officers were present at all the tracks in the Province during the time racing was being carried on, and were responsible for the prosecution of a number of "bookmakers" and other undesirable race track frequenters.

A number of prisoners wanted for various crimes in this Province were brought back from points in the United States by Inspectors of the Criminal Investigation Branch under warrants of extradition.

The campaign instituted by the law officials of your Department against questionable high-pressure salesmen and stock brokerage firms has been continued with signal success.

COUNTY CONSTABULARIES

During the past year, upon your approval, Provincial Constables selected by me were vested with the powers of High Constables to perform the duties of such office, in the following counties:

Essex
Wellington
Lincoln
Huron
Bruce
Kent
Perth
Leeds

Offices for Acting High Constables were opened at:

Brantford
Stratford
Milton
Windsor
Renfrew
Brampton
Goderich
Kitchener
Morrisburg
Sarnia
Welland
Picton
St. Catharines
Orangeville
Owen Sound

Changes due to promotion of two Acting High Constables to the rank of Sergeant, the transfers of three Acting High Constables, and the resignation of one Acting High Constable, necessitated the appointment of six Acting High

Constables approved by me, who were vested with the powers of High Constables in the following counties:

Norfolk	Peterborough	Victoria and Haliburton
Dundas	Bruce	Prince Edward

Thirty-three counties have High Constables who are members of this Force. Two other counties are expected to come under the new system in the very near future. This will leave five counties with High Constables who are not Provincial Constables.

There has been excellent co-operation from the County Crown Attorneys, County Clerks, and other County Officials, in assisting the High Constables in trying to improve the County Constabularies.

The active County Constables, the majority who are on the fee system, are now making returns to their High Constables.

All District Inspectors have been consulted from time to time concerning the County Constabularies in their districts. The Acting High Constables have been visited frequently by a Staff Inspector, and they were advised and encouraged in their work of reorganizing, and there is proof that the new system brought about by the amendment to the Constables Act has been beneficial to the counties and to law enforcement in general.

Training School

The school established in 1929 for the training of members of the Force was reopened in November 1929 and remained in session until June 1930 when it was closed for the summer.

During the season's activities forty-nine men took the courses provided, twenty-nine of them being brought in from their respective detachments for that purpose and twenty were new recruits.

The syllabus of the classes was along the lines laid down and embodied in my last report.

I find that the effects of the training received are apparent in the increased efficiency shown by members of the Force.

The Motorcycle Patrol

On March 11th, 1930, an Order-in-Council was passed whereby the administration and control of the Highway Traffic Officers were transferred from the Department of Public Highways to your Department for a period of four months, tentative to such transfer being made permanent. On that date, three Inspectors and sixty-seven Traffic Officers employed in enforcing the provisions of the Highway Traffic Act came under my control and were vested with full powers of Provincial Constables.

During the four months following the temporary transfer all the Traffic Officers were classified and graded, and on July 11th a further Order-in-Council was passed whereby they all were appointed to the permanent staff as Provincial Constables with grade and salary commensurate to their service.

The unit was to some extent reorganized and named the Motorcycle Patrol, Ontario Provincial Police, with an Inspector in charge. That part of the Province south of the Severn River was divided into three areas, to wit: Eastern, Central, and Western, and an Area Inspector appointed and put in charge of each area.

The inclusion of these officers on this Force has filled a long felt want and rounded out our organization, making it more mobile and efficient.

I am pleased to report that the co-operation between this Branch and the regular Force could not well be better, and there has been a number of instances whereby their key position on the Highways has been of the greatest benefit. Reports show that their usefulness as Traffic Officers has not in anyways been lessened, but, on the contrary, they now being empowered to enforce all laws are able to render much greater service to the Province.

The work of the Patrol will be found in detail in the report submitted by the Inspector in charge.

Northern Motorcycle Patrol

Reports from Northern Ontario show that the Motorcycle Patrol stationed in the northern Districts continue to do good work. Many letters of appreciation have been received testifying to their assistance to automobile tourists.

The Patrol is instructed that they must assist motorists, who they find on the Highways with their automobiles damaged or otherwise out of commission. There are many miles of Highway in this part of the Province where there are no telephones, few settlers, and no service stations. Consequently the assistance given by the Motorcycle Constables is of great help and very much appreciated.

FOREST FIRES ACT

Owing to the exceedingly dry summer and fall of the past year, forest fires were again numerous, and special instructions were issued to all members of the Force to assist in every way possible, the work of extinguishing any fire that took place, also to investigate thoroughly the cause of any fire which might be of a suspicious origin and take whatever action the result of their enquiry might warrant. They were also instructed to get in touch with the forestry fire rangers and to keep them informed of any serious fire threatening either life or property.

GAME AND FISHERIES ACT

Thirty-eight prosecutions were instituted for offences against the various sections of this Act, and thirty-eight convictions obtained. Assistance has also been given the Game Wardens, and complaints investigated whenever requested by the officials appointed to enforce this Act.

GAMBLING, HANDBOOKS AND GAMES OF CHANCE

One hundred and fifty-four prosecutions were instituted under this head, and one hundred and forty-six convictions obtained.

A number of gaming devices of various descriptions were seized (some of a very elaborate pattern) and confiscated by the courts.

CUSTOMS AND EXCISE ACT

The number of prosecutions for offences under this Act total fifty-nine as against ninety-six in 1929. This decrease can be accounted for by the fact that the manufacture of illicit liquor is continually on the decline.

OFFENSIVE WEAPONS

Ninety prosecutions were instituted under this heading and seventy-six convictions obtained, the majority being against aliens for having fire-arms in their possession.

In all cases where the magistrate ordered the confiscation of the weapon, the article in question was forwarded to my office.

Amongst those received have been a number of shotguns, rifles, revolvers, knives, razors, knuckle-dusters, etc.

DEATHS FROM VIOLENCE AND UNNATURAL CAUSES

The following number of deaths from violence and other unnatural causes were reported to and investigated by members of this Force during the year:

	1930	1929
Murder	21	20
Manslaughter	17	28
Suicide	83	83
Automobile fatalities	200	248
Drowning	166	191
Other causes, i.e., shooting, burns, etc	217	188
Total	704	758

In comparison with the figures for the preceding year, these figures show a decrease of 54, due principally to the decrease in deaths from drowning and automobile fatalities.

The investigations and assistance rendered in these cases cause an enormous amount of work by the members of the Department, all of which is very necessary so that the full facts can be laid before the Coroner and Crown Attorney.

AUTOMOBILE FATALITIES

Two hundred deaths attributed to the use of automobiles on the highway were reported during the year.

This is a decrease of forty-eight over the year 1929. Every one of these fatalities was thoroughly investigated and wherever necessary, prosecutions against the driver for criminal negligence or manslaughter were instituted. It is very difficult to define specifically the cause of these fatalities. The majority, no doubt, are due to recklessness on the part of the driver and could be avoided. On the other hand, there are some which are pure accidents and are unavoidable. I am pleased, however, to say that our investigations show that in very few cases was intoxicating liquor a contributory cause, and it is very gratifying to note the decrease in the number of fatalities from the preceding year. There is, however, still much room for improvement.

DEATHS FROM DROWNING

One hundred and sixty-six cases of death by drowning were reported to and investigated by members of the Force, and many requests for assistance from friends and relatives to recover the bodies of the victims.

Assistance was rendered in all cases wherever practicable, and in many cases where the body was not recovered at the time of the search, attention was continued in the event of it being afterwards washed ashore.

OFFENCES AGAINST WOMEN AND GIRLS

The following table gives the prosecutions, convictions, dismissals, etc., for offences of this nature prosecuted by members of this Force during the year:

Offence	Prosecutions	Convictions	Dismissals	Withdrawn	Awaiting disposal	1929
Abduction	12	6	4	2	....	10
Carnal knowledge and attempted	70	37	21	7	5	48
Incest	21	14	5	....	2	8
Indecent assault	101	68	20	5	1	76
Rape and attempted	35	15	11	4	5	22
Procuring	7	6	1	....	....	11
Seduction	29	16	8	3	2	24
Totals	275	162	70	21	22	199

I desire to mention here some of the most serious cases which came to our attention and was investigated during the year:

MURDERS

Michael Donnye, Port Dover

The body of Michael Donnye, Port Dover, was found beneath a bath-house on Port Dover lake front on November 11, 1929. On examination it was found that death had been caused by knife or bullet wounds in the chest. The matter was investigated by the Criminal Investigation Branch and officers of No. 4 District, and as a result thereof, Flori Erdelzi was arrested and charged with murder. At the trial the jury returned a verdict of manslaughter and Erdelzi was sentenced to twenty years in Kingston Penitentiary.

John Evans, Winona

John Evans, Roumanian, farmer, was shot and killed at his home on Station Road, Winona, on November 26, 1929, by an unknown man, whose object was robbery. The matter was investigated by the members of this Force in cooperation with the Hamilton City and Wentworth County officials. As a result of very extensive enquiries charges of murder were laid against Mike Smith, Joe Mikulsky, and Martin Shawra, who were committed for trial. Smith and Shawra were convicted of murder and sentenced to be hanged. Mikulsky was found not guilty. The sentence of death against Smith was carried out on July 8, 1929. Shawra appealed and obtained a new trial and at his second trial was found not guilty.

John Berglund, Fort William

On November 27th, 1929, John Berglund, taxi-driver, Fort William, was found dead in his taxi on Arthur Street about six miles from Fort William.

death having been caused by a bullet wound in the forehead. The matter was investigated by the members of this Force, assisted by the Fort William local police, and extensive enquiries made throughout Canada and the United States, but so far we have not been successful in bringing Berglund's murderer to justice.

Louis C. Miller, Chippewa

On January 28th, 1930, the dead body of Louis C. Miller was found in his bungalow on Chippewa Creek. Death had been caused from a gun shot wound in the neck. The matter was investigated by Inspectors of the Criminal Investigation Branch and our District Headquarters Officers, Niagara Falls. As a result, Steve Ruich was arrested and charged with murder and committed for trial. At his trial the grand jury returned a verdict of no bill.

Mrs. Everton Switzer, Bear Lake

On January 28th, 1930, Joseph Norman surrendered to County Constable Dovell and stated that he had murdered Mrs. Switzer with an axe and had then set fire to the dwelling. Enquiries proved that his story was correct when the charred body of Mrs. Switzer was found in the ruins of her home. Norman was arrested by Provincial Constable Warren and charged with murder. At his trial the jury returned a verdict of manslaughter and he was sentenced to seventeen years in Kingston Penitentiary.

Joseph Kameon, Wallaceburg

On January 30th, 1930, Francis Vandevelde, Hollander, was arrested and held for enquiry regarding the disappearance of Joseph Kameon, also a Hollander, on whose farm Vandevelde was found to be living and whose watch he was wearing. Very extensive enquiries were made by the members of this Force assisted by the local police, it being generally believed that Kameon had been murdered and his body disposed of, but it was not until April 9th, 1930, that Kameon's body was found under a manure pile in the yard of the farm. As a result Vandevelde was charged with murder, convicted and sentenced to be hanged on December 23rd, 1930.

Mrs. Mary Campbell and Lily Campbell, St. Joseph Island

On April 11th, 1930, Andrew Simons shot and killed Mrs. Mary Campbell and her seventeen year old daughter Lily at their farm on St. Joseph Island. After killing the two women Simons shot himself through the head and died immediately. At the inquest the jury returned a verdict that Mrs. Campbell and Lily Campbell died from being shot by a rifle in the hands of Andrew Simons, who then died by his own hand.

Enquiries showed that this tragedy was caused through Simons' jealousy over the girl, Lily Campbell.

Marion Tweedle, Binbrooke.

On May 12th, 1930, Marion Tweedle, Binbrooke, was shot and killed by one William Topp, also of Binbrooke.

Topp had visited the Tweedle farm at 9 p.m., May 11th, regarding a mortgage held by Emery Tweedle and remained until 2 a.m., May 12th, leaving supposedly for home. A short time after Topp left the house, someone knocked at the door, and when Emery Tweedle opened it he was shot by Topp. A cousin, Marion Tweedle, went to the telephone for assistance. She was also shot by Topp. She ran outside and fell dead. Emery Tweedle was taken to a hospital and Topp disappeared into the country. An investigation was commenced by the Hamilton Headquarters, assisted by the Wentworth County Police, and the body of Topp was found at 5.30 p.m. same day at the rear of his father's barn. He evidently had committed suicide by shooting himself with a twelve bore shot gun.

Kalle Pukki, Lumber Camp, Temiskaming

On June 20th, 1930, Kalle Pukki, and Ole Maki, Finlanders, quarreled at their camp and Pukki died from stab wounds in the stomach inflicted by Maki. Maki was arrested by members of this Force and charged with murder. At his trial the jury disagreed and a new trial was ordered, such trial to take place at the spring assizes, 1931.

Charles Tuoimen, Dobie Township

On June 27th, 1930, Charles Tuoimen, Finlander, was shot and killed on the farm of Mrs. Luoma by Jacob Luoma, fourteen year old son of the owner. It appears that the boy, under the impression that he was going to be chastised by Tuoimen, borrowed a gun from a neighbour and lay in wait for Tuoimen and shot him. Luoma was arrested and charged with murder which charge was later reduced to manslaughter. He was found guilty and sentenced to fifteen months determinate and three months indeterminate at the Fort William Industrial Farm.

Morton Johnson, Hurkett

On July 2nd, 1930, Simon Collins, Indian, shot and killed Morton Johnson on the railway right-of-way at the Village of Hurkett and then took to the bush. As a result of very extensive searches by the members of this Force assisted by the settlers, Collins was arrested by Provincial Constable Blair hiding in the bush. He was charged with murder of Johnson and at his trial the jury returned a verdict of manslaughter and he was sentenced to fifteen years in the Stoney Mountain Penitentiary.

Philip C. Rumbold, Port Credit

On July 22nd, 1930, at about 7.30 a.m. the dead body of a man was found in an automobile on Mineola Road, Toronto Township. The body was on the seat with his hands tied behind his back, rope around his neck, tightened with a bar of solder, and the left side of his head crushed in with a hammer. Enquiries showed the body to be that of Philip Rumbold of Tonawanda, New York, United States of America, who had the day before left home for a fishing trip in Canada and whose movements were traced to Hamilton.

The whole available resources of this Department assisted by local police forces in this Province and in United States have been engaged in trying to bring to justice those responsible for this murder, but so far without success.

Mrs. Catherine Richardson, Point Edward

On July 9th, Mrs. Catherine Richardson died from poisoning at her home at Point Edward. As a result of investigations made Mrs. Mary Richardson, a daughter-in-law, was arrested and charged with the murder of her mother-in-law by administering poison. She was committed for trial on August 8th, 1930, and on Thursday, August 14th, at 7 a.m., Mary Richardson was found dead in her cell at the County Gaol. As a result of an autopsy it was found that she had died from natural causes.

Mrs. Rocco Perri, Hamilton

On August 13th, 1930, at about 11.30 p.m., Mrs. Rocco Perri was shot and killed as she was going from her garage to her dwelling house at 166 Bay Street South, Hamilton, by shots from a double barrelled shot gun in the hands of some unknown person.

Members of the Criminal Investigation Branch of this Force have assisted the Hamilton authorities in an endeavour to locate and apprehend those responsible for this murder, but so far without success.

Lawrence E. Doten and Lawrence C. Jones,
United States Immigration Agents, Fort Frances.

On August 24th, 1930, Emery Frenette held up the train crew of Canadian National train west of Fort Frances and shot and killed United States Immigration Officers Lawrence E. Doten and Lawrence C. Jones, he being under the impression that they were police officers, as at the time he was escaping from the police of Fort Frances.

When information was received by members of this Force, combined efforts were made to effect Frenette's apprehension. He was traced to a farm house where he took refuge and commenced to fire upon his pursuers. He was evidently badly wounded by rifle fire and his death took place six hours later in the hospital. An inquest was held and the jury returned a verdict that Frenette came to his death at the hospital at Emo from gun shot wounds whilst resisting arrest and the police and those assisting were exonerated from all blame.

Police Constable F. McNicoll, Crowland

On September 3rd in answer to a call for police assistance from 84 6th Street, Crowland, Police Constable McNicoll of the Crowland Police Force responded. He was met by Joseph Kovach, Hungarian, with a shot gun. Kovach discharged the shot gun at McNicoll's head, killing him instantly. Our office at Welland was notified and Provincial Constables Finger and Peel located Kovach in the cellar of the above address. He was arrested, charged, and convicted of murder but appealed and obtained a new trial, which trial has not yet been held.

Sydney Herbert McKee, Coniston

On September 9th, Mrs. Eugenie McKee of Coniston, Ontario, killed her husband, Sydney Herbert McKee, by striking him with a stove lifter. Mrs. McKee was arrested, and charged with murder, which charge was eventually reduced to manslaughter. At the trial the jury returned a verdict of not guilty.

Ernest Gatien, Cornwall

On June 10th, Ernest Gatien, Cornwall, Ontario, was struck on the head by an oar wielded by Louis Jocko, Indian, Cornwall Island. Gatien died the next day. Jocko was arrested on the Indian Reserve and charged with murder. At his trial October 29th, the jury disagreed and a new trial was ordered which has not yet taken place.

ATTEMPTED MURDER

On the evening of July 30th, 1930, Provincial Constable W. Bertrand was checking up on the illegal sale of liquor from rowboats on the St. Lawrence River at Flannigan's Point near Cornwall. Bertrand had taken hold of one boat at the edge of the river when the occupant murderously attacked him with an oar, inflicting severe injuries to his head and arm which necessitated hospital treatment.

As a result of an investigation by the Cornwall Detachment, Francis Jacob, an Indian, was arrested and on October 30th, 1930, sentenced to three years in Kingston Penitentiary for the attempted murder of Bertrand whilst engaged in the execution of his duties.

On the morning of June 30th, 1930, at 4 a.m., Charles R. Rowe of Toronto was shot by an unknown man with a shot gun as he was walking from the garage to the house of his brother, William E. Rowe, at Newton Robinson, Ontario. The shot took effect between the shoulder and elbow of the right arm. The investigation was handled by the Criminal Investigation Branch assisted by Barrie District Headquarters, which resulted in one Gordon Bradley being arrested and charged with attempted murder. He is now awaiting trial.

ROBBERIES, THEFTS, ETC.

On October 29th, 1929, the branch of the Bank of Nova Scotia at Brussels was robbed by two men who got away with approximately $5,000.00. As a result of investigations by the Kitchener District Officers, assisted by the Criminal Investigation Branch, two men are now awaiting trial charged with the robbery.

On Saturday, November 30th, 1929, George Clay, teller at the branch of the Bank of Montreal, Amherstburg, absconded with approximately $4,500.00 bank funds. He and an accomplice, Ronald Robinson, were later arrested in Buffalo and returned to this Province for trial. They were both convicted and sentenced to three years in Kingston Penitentiary.

On February 12th, 1930, Norman Small, taxi-driver, was assaulted and robbed of his money and taxi near Tillsonburg by George Crandall, John Bruner, Margaret Sherwood and Clara Gerard, all of Windsor. Our Dunnville Detachment was successful in arresting all four and recovering the taxi. All four were charged with robbery with violence. George Crandall and John Bruner were sentenced to ten years in Kingston Penitentiary and ten lashes and five years in Kingston Penitentiary and ten lashes, respectively. The two women were sentenced to six months each as vagrants.

On March 28th, 1930, the home of M. Morris, Avon, Ontario, was burglarized and valuables stolen therefrom. The investigation, handled by the St. Thomas Detachment, resulted in the arrest of Peter Williams, who, at his trial on March 29th, was sentenced to three years in Kingston Penitentiary.

On March 29th, 1930, at 11.30 p.m., James Reddick, storekeeper, Morrisburg, was assaulted and robbed whilst proceeding towards his home. As a result of an investigation carried out by the Morrisburg Detachment, assisted by Ottawa District Headquarters, James O'Mealley and Phil Castagner were arrested and charged with robbery with violence. At their trial they were convicted and sentenced to three years in Kingston Penitentiary and ten lashes each.

On March 27th, 1930, a radiogram was received at Gold Pines Detachment by Provincial Constable A. S. Ericksen from Mr. H. G. Young stating that a bale of furs valued at approximately $1,200.00 had been stolen from the Northern Transportation Company's bunk house at Red Lake, Ontario.

Provincial Constable Ericksen immediately left Gold Pines by aeroplane (Western Canada Airways) and on arriving at Red Lake he began an investigation, secured a dog team and guide and conducted a number of searches north of Red Lake but without success. Later he returned to Red Lake and was joined by Provincial Constable Pike and finally they were successful in locating one David Brinton, who had come from a cabin across the lake to the town. Further investigations followed by searches discovered the bale of furs strapped to a toboggan about a mile from Red Lake. David Brinton and Frank Lee, Chinaman, were arrested on April 3rd, 1930, and transported to the Sioux Lookout lockup by aeroplane. On April 8th, 1930, Brinton appeared for trial charged with theft of furs, pleaded guilty, and sentenced to four years in Stoney Mountain Penitentiary. Lee was charged with receiving stolen goods and given two years suspended sentence. The furs were returned to the owners, the Hudson Bay Company, in good condition. This was exceptionally good work under very trying conditions.

Mike Kwasick, John Craig and William Millard were convicted at St. Thomas May 1st, 1930, for shopbreaking and theft, in which the safe at the P.M.R.R. Depot was blown, and all sentenced to five years in Kingston Penitentiary. This investigation was handled most creditably by the St. Thomas Detachment who did some very outstanding work to obtain the evidence on which these prisoners were convicted.

Chris and William Smith of Niagara Falls were charged at Niagara with a series of thefts from summer cottages and tourist camps during the past summer. They were both found guilty on September 23rd, William Smith being sentenced to three years in Kingston Penitentiary and Chris Smith to one year definite and two years indefinite in the Ontario Reformatory. A large quantity of the stolen goods were recovered.

William Wucker, Simcoe, was charged with a series of robberes and thefts in Norfolk County on August 14th, 1930. This investigation was handled by our Simcoe Detachment and resulted in Wucker being convicted and sentenced to four years in Kingston Penitentiary. He is still awaiting trial on further charges under section 295, Criminal Code.

On July 16th, 1930, Provincial Constable Robbie of Queenston followed a Ford sedan to the crest of the hill at Queenston Heights where he overtook the car in which were two men suspected of being pickpockets. As the officer approached the right front seat of the car to make the arrest the occupant sitting beside the driver opened the door and kicked him in the chest with both feet. The door closed and the car began to back down the hill. Despite the brutal attack made on the officer he managed to climb through the open window and during the struggle which took place the front seat gave way, the driver losing control of the car which crashed against a tree. The force of the impact opened the rear left door, and the driver of the car escaped when the officer released his hold on him to turn off the ignition. The prisoner who assaulted the officer in the first instance and later identified as Thomas Laverty, was arrested by Robbie and handcuffed. A number of purses, later identified by Toronto people, were found on him. Medical aid was summoned and on examination it was learned that the officer had suffered five fractured ribs in addition to lacerations on the body. On August 5th, 1930, Laverty was charged with assault, robbery, and having in his possession narcotics, to which he pleaded guilty and was sentenced to two years less one day on the assault and robbery charge, eighteen months plus a fine of $200.00 and costs or an additional three months under the Opium and Drug Act, all sentences to run concurrently. The driver of the car, Claude Pierson, was later arrested by the Hamilton City Police, identified by Robbie and charged with assault on September 2nd, 1930, to which he pleaded guilty and was sentenced to two years in Portsmouth Penitentiary.

On May 29th, 1930, a search for recovery of stolen goods was conducted at the premises known as 1625 Giles Boulevard, Windsor, Ontario, and a quantity of goods recovered valued at approximately $3,500.00, alleged to have been stolen from summer homes in Puce and Belle River District. Five revolvers were also seized found hidden in the furnace. Mrs. Mary Folsom, Miss Bebe Duprey, Charles Zenkauskas (alias Smith) wanted at Waterbury, Conn., U.S.A. for bank robbery, Alfred Robinette, Clarence Jacobs, and Albert Jacobs were arrested and on July 3rd, 1930, appeared for preliminary hearing charged with receiving stolen goods. The charge against Albert Jacobs was dismissed and the remaining five prisoners were committed for trial and on October 23rd, 1930, found guilty and sentenced on October 28th, 1930, as follows:

Charles Zenkauskas—fourteen years in Kingston Penitentiary.
Clarence Jacobs—seven years in Kingston Penitentiary.
Alfred Robinette—seven years in Kingston Penitentiary.
Miss Bebe Duprey and Mrs. Mary Folsom—two years suspended sentence.

Charles Zenkauskas, while in custody in the Essex County Gaol, attempted to commit murder in an endeavour to effect a general gaol delivery, and at the Criminal Assizes he was charged with conspiracy to commit murder which was reduced to conspiracy to commit an indictable offence and he was sentenced to seven years in Kingston Penitentiary, all sentences to run concurrently.

On February 5th, 1930, at Newburgh, Ontario, Provincial Constable F. W. Barrett of Napanee commenced an investigation into a series of cases of breaking, entering, and theft, in the eastern part of the Province. During the course of investigation evidence was unearthed which required the assistance of the Criminal Investigation Branch and officers of this Force practically throughout the whole southern section of the Province. Assisted by Toronto and other municipal Police, goods were recovered which were stolen from the following towns and cities: Newburgh, Tamworth, Centreville, Camden East, Cobourg, Brighton, Coldwater, Acton, Port Perry, Allandale, Oshawa, Whitby, Toronto and Beaverton, resulting in the arrest of a notorious gang of criminals. On February 18th, 1930, James Walker (alias Lee, Wilson, Coulter) was arrested along with one Mrs. Florence Shane. On November 4th, 1930, Russell Perrin, Claudia Orindi (alias Digo, alias Blackeyed Diamond, common-law wife of

Perrin) were arrested in Conneaut, Ohio, U.S.A., and returned to Toronto and remanded for trial. John Osborne, and Mrs. Gunn, were also arrested after being implicated by Mrs. Florence Shane. While awaiting trial, James Walker broke gaol at Napanee on February 25th, 1930, and was later arrested in Winnipeg. He was returned to Napanee on June 4th, 1930, and on June 5th, 1930, appeared for trial on six charges of theft and sentenced to a total of twelve years in Kingston Penitentiary. On June 6th, 1930, Florence Shane, appeared charged with theft, and given five years suspended sentence. In all, Wilson and Shane were responsible for thirty-six cases of theft in the Province. While awaiting transfer to the Penitentiary, Wilson again broke gaol at Napanee on June 28th, 1930, and was later arrested at Lethbridge, Alberta. He was charged with theft in Lethbridge and given a six months sentence. Arrangements have been completed with the Alberta officials whereby Wilson will serve his penitentiary term, given in Ontario, in Alberta at the termination of his sentence there. Perrin was charged with theft as follows: Milton, Ontario, pleaded guilty and sentenced to two years less one day and two years indefinite; Brighton, four charges of theft and pleaded guilty and sentenced to eight years in Kingston Penitentiary, November 22nd, 1930; Napanee, Ontario, three charges of theft and sentenced to two years on each charge, sentences to run concurrent with previous sentences imposed. Claudia Orindi was charged accessory to the fact, Section 574, Criminal Code, and pleaded not guilty and the case was dismissed. On October 29th, 1930, John Osborne appeared for trial charged with receiving stolen goods and was sentenced to one year indeterminate. Mrs. Gunn appeared on the same charge and pleaded not guilty and the case was dismissed on July 4th, 1930.

FRAUD

R. J. Newton and A. E. Simpson, St. Thomas, were charged with conspiracy to defraud the St. Thomas Board of Education. The investigation was commenced by our St. Thomas Detachment in October 1929, and resulted in both being sentenced to five years in Kingston Penitentiary.

Morley Pettitt, Simcoe, was charged with fraud and theft of cattle in Norfolk County in June 1930. This investigation was very ably handled by our Simcoe Detachment, as a result Pettit was charged on ten counts, found guilty, and sentenced to five years in Kingston Penitentiary. This was a very gratifying clean-up as Pettit had been defrauding cattle dealers throughout the Province for years.

THEFT OF POULTRY

Reginald Schram of Walsingham, Ontario, was arrested and convicted of extensive poultry thefts in Norfolk County in October 1930, and sentenced to two years in Kingston Penitentiary.

Frederick Dingman, Dave Chrysler, and Cecile Salt of Tuscarora Township, were arrested and convicted of extensive poultry thefts in the County of Brant, December 1929, and were all sentenced to two years less one day in the Ontario Reformatory.

William Clayton, no fixed abode, was arrested, charged, convicted, and sentenced to two years in the Kingston Penitentiary for theft of poultry in Ontario County, February 1930.

Victor and Winford MacPherson, Jordan, Ontario, were arrested, charged, convicted, and sentenced to two years less one day in the Ontario Reformatory for extensive thefts of poultry in Lincoln County, June 1930.

William Sipes, Simcoe, Ontario, was arrested, charged and convicted at Simcoe of four counts of poultry stealing and sentenced to two years in Kingston Penitentiary.

Fred Hartsell and Harry Anderson, London, Ontario, were arrested, charged and convicted at Stratford for extensive theft of poultry in Perth County, February 1930. Hartsell was sentenced to two years in Kingston Penitentiary, and Anderson suspended sentence for two years.

Andre Larocque, Lancaster, Ontario, was arrested, charged and convicted of poultry thefts in the County of Glengarry and sentenced to two years in Kingston Penitentiary.

THE COMMISSIONER OF POLICE FOR ONTARIO,
Parliament Buildings, Toronto, Ontario.

Herewith I have the honour to respectfully submit for your information, consideration and approval, report covering the work of your Motorcycle Patrol in that period of the fiscal year during which we were privileged to act under your direction and command. You will please note that in no part does this report cover more than seven and a half months, the date of transfer from the Department of Highways to that of the Honourable the Attorney-General, being March 11th of this year, and in the item of mileage as covered by Constables in the patrol of details, figures cover only the period from May first (May 1st, 1930), the date from which constables were required to furnish this item for records under proper supervision of Area Inspectors.

The strength of this patrol upon such assignment was in all seventy Highway Traffic Officers, two of whom were assigned to duties corresponding to those of Inspectors in Provincial Police, and one, the writer, to the duty of General Supervisor. The Province, in so far as the Provincial Highway system extends, was treated as a whole and direction was given from Headquarters in the East Block from which Headquarters the senior Traffic Officers, acting as Inspectors, worked, one east and one west.

Reorganization

Almost at once, under your direction, the Province was divided for purposes of traffic control, into three areas, designated as Central, Western, and Eastern, over each of which an Inspector of Provincial Police, Motorcycle Patrol, designated as "Area Inspector" was placed and subsequently stationed at a central point therein, and the whole made responsible to you through an Inspector in Charge, located at Headquarters.

Your initial course in converting Traffic Officers into Provincial Constables with full powers under the Act governing such, has added greatly to the usefulness and efficiency of this patrol, and has also, I believe, been in the general interest of law enforcement, making available this Motorcycle Force not only for better traffic control, but, also, for use wherever and whenever emergency arose.

As of November 1st, 1930, this patrol numbered eighty constables on duty and assigned to details over the twenty-eight hundred miles of improved King's Highway in older Ontario. Maximum strength of patrol attained in July of this year was eighty-six constables, with patrol Headquarters staff of Inspector in Charge and three Area Inspectors included. We have lost by dismissal for cause 1; by the granting of permission to resign 3; by voluntary resignation 5; and added by appointment 23.

Summary

Transferred from Department of Public Highways		67
Added by appointment		23
Total		90
Dismissed from service	1	
Permitted to resign	3	
Voluntary resignation	5	
Promoted to Area Inspector	1	
		10
Total duty strength, October 31st, 1930		80

The main duty of this patrol has been the control of traffic and we have had constantly in mind your instruction that this duty must always, in the absence of emergency, take precedence over all other work. In this connection, I have to report that in the given period, under provisions of the Highway Traffic Act, officers of this patrol have laid eight thousand nine hundred and forty-eight complaints; under Criminal Code two hundred and seventy-seven, and under the Liquor Control Act three hundred and seventy-six, giving a total of nine thousand six hundred and one prosecutions. Of this total, three hundred and seventy-five have been dismissed, being 96.09% of convictions registered. Two hundred and forty-five complaints were withdrawn. We have received, in fines, a total of ninety-two thousand eight hundred and forty-seven dollars and forty-one cents; the costs assessed in these cases totalling thirty-seven thousand seven hundred and sixty-two dollars and thirteen cents. Three hundred and seventeen convicted persons suffered suspension of Operator's License and a total of twenty-three years, eleven months and twenty-eight days have been served in gaol by two hundred and ten convicted persons. By the exercise of clear incisive judgment, two convicted persons were committed to the Ontario Hospital for the Insane. This was particularly commendable and will, I trust, have a salutory effect in bringing to attention of operators that it is within the jurisdiction of the Bench to have them examined as to mental fitness to operate automobiles.

As a summary of work done under Liquor Control Act appears in the report as submitted to Chief Inspector F. E. Elliott, this item is not dealt with here as to detail. Please note correction in figures given by this office to Chief Inspector Elliott.

Summary

Prosecutions H.T.A.	8,948	Fines	$77,407 66	Costs	$34,221 01
" C.C.	277	"	1,023 50	"	1,109 68
" L.C.A.	376	"	14,416 25	"	2,436 40
Prosecutions total	9,601	Total	$92,847 41	Total	$37,762 13
Constables' fees collected and returned					530 70
					$38,292.83

Complaints dismissed 375, being 3.91% of complaints laid.
Complaints withdrawn—255.
Operator's Licenses suspended—317.
Confined to Gaol 210—Time served, 23 years, 11 months, 28 days.
Warnings issued by constables—8,563.

Stolen Cars—Recovered

Your patrol has recovered and had returned to their rightful owners a total of one hundred and four stolen cars. In this connection may I point out that these cars were not stolen by the ordinary joy rider and left at points adjacent to large centres of population where they might be readily picked up within twenty-four hours, but were largely cars which had been missing for some time.

Under an arrangement made with your sanction as between Toronto Police Department and this patrol, we are now supplied with detail as to cars stolen and reported to Toronto Police Headquarters *which have been unrecovered for a period of at least one week.* I am confident that under this arrangement the cars recovered by your patrol will show a considerable increase in the current year.

SUMMARY

Cars recovered and returned to owners	104

Accidents

Accident prevention has been stressed and I believe that in this particular the work of this patrol is increasingly apparent. Under arrangement with the Department of Highways, sand, gravel, cinders, and other traction-giving material is made available for use at such points as may be designated by your constables on detail, and I wish to express here my keen appreciation of the efficient service rendered by that Department under the instruction of Chief Engineer Mr. A. A. Smith. It is impossible to estimate the saving and property value, or even of life, thus effected, but we may assume that the effort is assuredly worth while. This service is rendered by the Department of Highways throughout the system.

It is further noted with appreciation that warning signs and road directions, and particularly the red reflector signs, have been erected invariably where the road is indirect, and the Department of Highways, through their Engineering Department, have extended every possible help in this connection.

Over the period indicated, there have occurred seventeen hundred and thirteen accidents, with property damage only on the highways proper, and in the same period, eighty-five fatal accidents, in which ninety-nine persons have been killed. In addition, accidents at railways crossings numbered twenty-one in which property damage only resulted, and three fatal, in which ten persons were killed.

SUMMARY

Non-fatal accidents on Highways proper total	1,713
Fatal " " " " "	85
Number of persons killed " " "	99
Non-fatal accidents at Railway Crossings total	21
Fatal " " " " "	3
Number of persons killed " " "	10

Patrol of Highways

In the patrol of highways by motorcycle, your constables have travelled a total mileage of one million, fifty-five thousand, and seven hundred and ninety-nine miles in the given period, and in addition, have travelled seventeen hundred and sixty miles by car. This latter item was not on patrol but largely in the necessary transport of prisoners, etc. The patrol thus carried out was, I am confident, a very great factor not only in accident prevention, but in the preserving of law and order on the highways.

SUMMARY

Miles travelled by motor cycle on patrol total	1,055,799
Miles travelled by car total	1,760
Grand total	1,056,459

Please note that patrol mileage, as given, is as from May 1st only.

Leave of Absence—Sick Leave

Constables on your patrol are by policy and regulation allowed one day other than holidays, the day preceding or day following same, or week ends, off duty each week, so that not accounting for these days, leave of absence granted on account of injuries sustained in performance of duty total four hundred and twenty-nine and one-half days. Leave granted for sickness, other than injuries, total one hundred and two and one-half days, and leave of absence for other than injuries or sickness total sixty-seven and one-half days. The small total of time lost makes, I submit, a very creditable showing.

SUMMARY

Leave granted on account injuries sustained	429½ days
Leave granted on account sickness	102½ days
Total	532 days
Leave granted on account holidays	67½ days
Grand total	599½ days

DISPOSITION OF MOTORCYCLE PATROL UNITS

Location of Details—Stations—Highway Mileage—Areas

The Highway system of older Ontario, extending over Highway No. 2 from Windsor to the Quebec boundary, with parallel branch and feeder systems and designated as King's Highways, covers approximately two thousand eight hundred miles. This mileage we have divided into details for purposes of patrol, these details following wherever possible county boundary lines, and this year numbering eighty, to eight of which we have never been able to assign constables because of shortage of men.

As the assignment of the necessary men to night patrol had also to be met from the limited number available, great care had to be exercised to meet the traffic requirements on outside details, these men being drawn therefrom of necessity, and the additional mileage had to be assigned to adjoining details, sometimes over the protest of users of these roads. In addition, following your reasonable instruction, your patrol has met all demands presented for special escorts (funerals, parades, etc.,) over the Highways where such service was required to insure the safe and free movement of traffic, and again, owing to under strength, the demands of this special service were met by depleting regular details of the constables assigned thereto.

The night patrol, applying this year on Highway No. 11, to Richmond Hill, No. 2 to Oshawa on the East and No. 2 to Hamilton on the West, No. 5 to Hamilton, No. 2 vicinity Windsor, and No. 8 vicinity Niagara Falls, has proven to be amply warranted and given splendid returns, even apart from the regulation of traffic in the check of movements of cars engaged illegally in the transport of liquor and in use contrary to the Criminal Code in other respects. May I suggest to you, Sir, that this service should be maintained in the current year and at your discretion extended to cover Highways in vicinity of large cities not now in this service, as before the adoption of this plan, an undue burden was placed on constables on regular detail on account of night calls to accidents, etc., which worked to the detriment of the service rendered by these men in regular hours of duty.

In order to cover adequately the details now laid out and night patrol, limited as in this period, a minimum strength of ninety men is necessary, and this number of men will not provide for replacements where injury occurs to constables necessitating absence from duty or for special calls for emergent purposes. In the best interests of the service, I look forward to the shortening of details as now constituted, but only when the additional men required are assigned and available for service in this patrol.

SUMMARY

Approximate mileage King's Highway	2,800	miles
Number of details	80	"
Average mileage covered on detail	35	"
Constables assigned to special duty night patrol, limited as above	10	"
Minimum number required for service as above indicated	90	"

Voluntary Security for Appearance

A system providing means whereby motorists found to be in contravention of certain provisions of the Highway Traffic Act, might be relieved of any undue hardship or inconvenience incident to compulsory personal attendance at court, was put into effect as of June 18th, 1930.

Under this plan, an amount approximately as nearly as the constable officiating could judge to that which would be assessed as penalty and costs were the matter to receive hearing before a properly constituted court, could, upon being voluntarily tendered by the offending motorist, be accepted as surety for the appearance of the motorist in court at a date specified, and could be estreated and made to apply as fine and costs on the non-appearance of the accused at such court and hearing, such non-appearance being understood to constitute a plea of guilty by the trial magistrate.

For any amount so tendered and accepted by the constable a receipt was given the accused motorist, the form being separated from a stub upon which details were entered by the constable to correspond with detail on receipt given, the form being a triplicate, a copy being provided for accused, trial magistrate, and these Headquarters, in each case.

In the absence of complaint and judging by the use made of this form, I submit that the plan has been a success, and am particularly proud that under its use no suggestion of any irregularity has been made upon seven hundred and fourteen of these forms used throughout the system, and in the given period the total sum of $9,988.50 was collected upon the road and turned over in the first instance to magistrates whose names appeared on receipt form given accused motorist for his information, guidance and reference.

SUMMARY

Voluntary security plan effective June 18th, 1930.
Number of cases in which form was used—714.
Amount accepted under plan—$9,988.50.

In conclusion I wish to express my keen appreciation of the way in which senior officers under your command received this patrol upon it being assigned to this Department, and to state that their helpfulness and co-operation has been of great value in the task of proper co-ordination of effort.

I sincerely trust this report of work accomplished in the given period meets with your esteemed approval, and that in our future work, we may in some measure merit the confidence so generously reposed in us by you, and repay in some small measure the kind consideration you have invariably extended to us.

All of which is very respectfully submitted.

INSPECTOR IN CHARGE,
Motorcycle Patrol.

LIQUOR CONTROL ACT

This Act has now been in operation over three years and it is encouraging to note that its provisions are being observed more satisfactorily each year.

The chief difficulties now encountered in the enforcement of this Act are the home-brew beer problems and the influx of American alcohol, both of which are to a greater or lesser degree out of our control.

There have been 6515 prosecutions by the members of this Force for violations of the Liquor Control Act for the year ending the 31st October, 1930, and the following table gives the prosecutions, convictions, dismissals, etc., and fines imposed under the various headings for offences against the Act during the above period:

	Prosecutions	Convictions	Dismissals	Withdrawn	Committed	Awaiting Disposal	Fines
Doctors giving Illegal Prescriptions	....	....	....	....	....	....	....
Drinking in Public Place	1,306	1,230	23	53	81	....	$16,427 75
Drunk in Public Place	1,476	1,412	59	5	250	....	15,522 00
Having Without Permit	1,078	846	136	96	200	....	91,310 00
Having or Consuming in Hotel	12	11	1	....	2	....	900 00
Illegal Use of Permit	81	65	9	7	7	....	2,560 00
In Possession of Liquor Without Board's Seal	42	41	....	1	7	....	620 00
Keeping in Unlawful Place	1,176	998	112	66	163	....	88,596 00
Miscellaneous Offences	173	143	13	17	33	....	6,375 00
Permitting Drunkenness in Private Residence	200	183	13	4	23	....	4,400 00
Sale or Keeping for Sale	531	263	163	105	263	....	....
Supplying Liquor to Minors	80	53	24	3	27	....	1,870 00
Violation Section 54 by Druggists	....	....	....	....	....	....	....
Supplying Liquor after Permit Suspended	10	10	....	....	2	....	675 00
Unlawful Purchase	276	240	26	10	55	....	20,525 00
Infractions Liquor Control Board Regulations	74	55	16	3	7	....	2,455 00
Total	6,515	5,550	595	370	1,120	....	$252,235 75

DISPOSITION OF CASES PROSECUTED UNDER THE LIQUOR CONTROL ACT

Number of prosecutions	6,515
Number of convictions	5,550
Number of dismissals	595
Number of withdrawals	370
Number committed	1,120

AMOUNT AND VALUE OF LIQUORS CONFISCATED

Beer	15,274 gallons
Spirits	4,846 "
Wine	1,345 "
Approximate value	$97,618 50

There were also confiscated under the Liquor Control Act, eighty-six automobiles, seven motor trucks with an approximate value of $32,600.00.

Fines imposed	$252,235 75
Confiscated automobiles and trucks	32,600 00
Confiscated liquors	97,618 00
Total	$382,453 75

There have been approximately 2,185 liquor permits received at this office for cancellation, from the members of this Force and in each case where it was considered that the report of the officer justified the cancellation of the permit, the same was forwarded with a recommendation to the Chief Commissioner, Liquor Control Board that it be cancelled.

On June 1st, 1930, the new Export Act, passed by the Dominion Government, came into force. At that time there were some forty export warehouses operating in the Province of Ontario. During the month of May occupants were warned to export the contents of their warehouses or return same to breweries and distilleries as any liquors found after the new Act came into force would be liable to seizure.

Since the closing of the export docks there has been a noticeable improvement in conditions. It has had the effect of shutting off the main source of supply to the bootlegger but has increased the amount of liquor being brought over our highways from Quebec in an endeavour to take it over the border into the United States.

I am pleased to state that since the control of the Motorcycle Traffic officers has come under this Force they have done excellent work in connection with the enforcement of this Act, being responsible for the seizure and confiscation of twenty-one automobiles containing over three thousand bottles of liquor and three hundred and thirty-seven gallons of alcohol.

A number of recommendations for suggested amendments to the Liquor Control Act and Regulations has been submitted by the Chief Inspector in charge of the enforcement of the Liquor Control Act, and the same forwarded to he Chief Commissioner, for his consideration.

STATISTICAL RETURNS

Return of prosecutions, convictions, dismissals, withdrawals, etc., by months for offences under the Liquor Control Act covering the period November 1st, 1929, to October 31st, 1930, with amount of fines imposed during that period:

	Prosecutions	Convictions	Dismissed	Withdrawn	Awaiting Trial	Amount of Fines
November	448	382	46	20	....	$17,950 00
December	396	334	50	12	....	16,250 00
January	408	327	45	36	....	17,760 00
February	345	269	38	38	....	12,455 00
March	491	435	39	17	....	17,611 00
April	564	478	45	41	....	20,516 00
May	710	618	55	37	....	28,537 00
June	627	544	53	30	....	26,019 50
July	687	588	59	40	....	19,116 00
August	648	558	64	26	....	24,125 25
September	704	616	56	32	....	28,661 00
October	487	401	45	41	....	23,235 00
Total	6,515	5,550	595	370	....	$252,235 75

Return of prosecutions, convictions, dismissals, withdrawals, etc., by Districts for offences under the Liquor Control Act, covering the period November 1st, 1929, to October 31st, 1930:

	Prosecutions	Convictions	Dismissed	Withdrawn	Awaiting Trial
No. 1 District Headquarters Windsor	712	474	64	174	....
No. 2 " " London	724	656	62	6	....
No. 3 " " Hamilton	461	364	71	26	....
No. 4 " " Niagara Falls	463	379	76	8	....
No. 5 " " Toronto	494	336	68	90	....
No. 6 " " Kitchener	662	549	87	26	....
No. 7 " " Barrie	483	431	48	4	....
No. 8 " " Belleville	543	523	14	6	....
No. 9 " " Ottawa	691	650	32	9	....
No. 10 " " Cobalt	492	455	26	11	....
No. 11 " " Sudbury	444	420	21	3	....
No. 12 " " Port Arthur	346	313	26	7	....
Total	6,515	5,550	595	370	....

Total fines imposed in connection with above prosecutions, $252,235.75.

Monthly return of prosecutions, convictions, dismissals, withdrawals, etc., by Provincial Police Districts of all offences (exclusive of the Liquor Control Act) covering the period November 1st, 1929, to October 31st, 1930:

	Prosecutions	Convictions	Dismissed	Withdrawn	Awaiting Trial	Amount of Fines
November	680	589	77	14	....	$6,349 00
December	412	319	69	24	....	3,936 00
January	366	296	42	28	....	2,853 00
February	370	312	37	21	....	3,420 00
March	457	376	57	24	....	2,865 00
April	647	541	72	34	....	4,432 00
May	818	695	78	45	....	5,753 00
June	798	674	88	36	....	7,487 50
July	685	581	73	31	....	3,817 00
August	693	583	74	36	....	3,810 00
September	659	546	80	33	....	2,888 00
October	641	393	77	23	148	3,567 00
Total	7,226	5,905	824	349	148	$51,177 50
County returns	853	704	115	32	2	....
Grand Total	8,079	6,609	939	381	150	$51,177 50

Return of prosecutions, convictions, dismissals, etc. (exclusive of offences against the Liquor Control Act), by Provincial Police Districts, covering the period November 1st, 1929, to October 31st, 1930:

	Prosecutions	Convictions	Dismissed	Withdrawn	Awaiting Trial
No. 1 District Headquarters Windsor	410	284	35	75	16
No. 2 " " London	972	785	134	44	9
No. 3 " " Hamilton	36	30	4	1	1
No. 4 " " Niagara Falls	624	451	116	23	34
No. 5 " " Toronto	357	329	11	15	2
No. 6 " " Kitchener	537	446	61	21	9
No. 7 " " Barrie	722	600	84	27	11
No. 8 " " Belleville	852	726	86	27	13
No. 9 " " Ottawa	690	558	78	30	24
No. 10 " " Cobalt	841	702	73	45	21
No. 11 " " Sudbury	762	659	64	33	6
No. 12 " " Port Arthur	423	335	78	8	2
Total	7,226	5,905	824	349	148
County Returns	853	704	115	32	2
Grand Total	8,079	6,609	939	381	150

Total fines imposed in connection with above prosecutions, $51,177.50.

Classified return of prosecutions, convictions, dismissals, etc., for all offences covering the period November 1st, 1929, to October 31st, 1930:

Offence	Convictions	Dismissals	Withdrawals	Awaiting Disposal	Total	
					1930	1929
Abandoning Child	1	1			2	5
Abduction	6	4	2		12	10
Abortion	5	2		1	8	
Abusive Language	2				2	8
Aiding and Abetting	3	2		2	7	4
Affray	14	2			16	9
Arson	18	4	3	1	26	12
Assault, Aggravated	10	4			14	13
" Bodily Harm	133	36	18	8	195	215
" Common	341	63	29	5	438	375
" Indecent	68	20	5	8	101	76
" on Police Officer	11				11	13
Assisting Prisoner to Escape		1		1	2	2
Attempted Abduction						
" Abortion	1				1	
" Arson	1				1	4
" Breaking and Entering	1				1	
" Assault						1
" Bribery						
" Buggery	2	1			3	3
" Burglary	1				1	
" Carnal Knowledge	2	1			3	5
" Fraud						
" Gaol Breaking	4				4	6
" Murder	1			1	2	2
" Poisoning						
" Rape	5	3	1	2	11	10
" Robbery	5	3		1	9	5
" Suicide	10	2			12	10
" Theft	6	2			8	9
Attending Cock Fight						
Betting						1
Bigamy	10	1			11	11

Offence	Convictions	Dismissals	Withdrawals	Awaiting disposal	Total	
					1930	1929
Breach of Amusement Tax Act						2
“ Bank Act						
“ Billiard and Pool Room Act	1				1	
“ Bread Sales Act	5				5	
“ Children's Protection Act	8	1			9	8
“ Dairy Act	2				2	2
“ Children's Maintenance Act	5				5	2
“ Forest Fires Act	25	5	2		32	18
“ Game and Fisheries Act	38				38	
“ Highway Traffic Act	1,575	94	52	1	1,722	1,508
“ Hotels Registration Act	10	1	1		12	12
“ Indian Act	20	3			23	61
“ Insurance Act	3				3	3
“ Lord's Day Act	64	2			66	95
“ Master and Servant Act	45	10	3		58	30
“ Medical Act						
“ Mining Act	1				1	1
“ Narcotic Drug Act	3				3	2
“ Optometry Act						3
“ Other Provincial Statutes	57	3	4		64	18
“ Parents Maintenance Act	8	4	3		15	16
“ Public Health Act	21	1			22	10
“ Railway Act	3	4			7	3
“ School Attendance Act						3
“ Theatres and Cinema. Act	3				3	
“ Vital Statistics Act						
“ Weights and Measures Act						
Breach of Peace						13
Breaking and Entering	290	42	9	7	348	295
Breaking Gaol						1
Breaking Parole						
Bribery						2
Buggery	4		1		5	10
Burglary	16				16	21
Canada Temperance Act	11				11	7
Carnal Knowledge	35	20	7	5	67	43
Causing Explosion	1				1	1
Causing Bodily Injury	6	5		3	14	11
Chicken Stealing	123	16	5	2	146	144
Concealment of Birth	3				3	6
Conducting Lotteries	1				1	
Conspiracy	16	1	1	7	25	17
Contempt of Court	2				2	3
Corrupting Children	17	3			20	17
Corrupting Witnesses	1	1			2	1
Counterfeiting						
Criminal Libel						
Criminal Negligence	93	41	11	4	149	108
Cruelty to Animals	64	20	2		86	41
Customs and Excise Act	53	4	2		59	96
Damage to Property	130	21	7	1	159	80
Disorderly Conduct	244	21	9		274	229
Discharging Firearms		1			1	
Disorderly House (Inmate)	129		10		139	97
Disorderly House (Keeping)	34	3			37	30
Driving Whilst Intoxicated	200	28	6		234	217
Escaping from Custody	11		2	1	14	14
Extortion	1	1			2	4
False Pretenses	81	20	18	34	153	139
Forgery	70	11	3	1	85	67
Fraud	66	4	4		74	45
Fraudulent Use of Trademark						1
Gambling	5	1			6	15
Games of Chance	7	1			8	20
Gaming House (Inmate)	113		5		118	106
Gaming House (Keeping)	20	1			21	15

Offence	Convictions	Dismissals	Withdrawals	Awaiting disposal	Total	
					1930	1929
Highgrading	5	....	....	4	9	6
Housebreaking and Theft	25	1	1	....	27	20
Impersonating an Officer	6	....	....	....	6	8
Incest	14	5	....	2	21	8
Indecent Acts	15	9	....	....	24	21
Indignity to Dead Body	1	....	....	....	1	....
Injury to Animals	3	1	....	....	4	1
Insane Persons	58	9	2	....	69	73
Intimidation	....	1	....	....	1	7
Juvenile Delinquents Act	17	1	....	....	18	6
Kidnapping	....	....	....	....	....	2
Libel	....	1	....	....	1	....
Lotteries	1	....	....	....	1	....
Making Handbooks	1	....	....	....	1	....
Manslaughter	8	9	....	....	17	28
Miscellaneous Offences	108	14	1	1	124	25
Mischief	34	1	....	....	35	41
Municipal By-laws	68	3	....	....	71	21
Murder	5	6	2	2	15	14
Neglect of Children	....	....	....	....	....	5
Non-Support	59	14	7	....	80	70
Nuisance	5	5	....	....	10	3
Obstructing Police Officer	35	6	7	....	48	56
Obscene Language	1	....	....	....	1	....
Offensive Weapons	74	9	4	3	90	79
Perjury	13	6	1	2	22	26
Pointing Firearms	7	3	1	....	11	11
Poisoning	3	3	....	....	6	2
Procuring	6	1	....	....	7	11
Prostitution	1	....	....	....	1	1
Rape	10	8	3	3	24	12
Receiving Stolen Goods	69	21	5	11	106	79
Resisting Arrest	6	....	....	....	6	6
Robbery	17	3	....	1	21	5
Robbery whilst Armed	18	3	1	....	22	16
Sedition	....	....	....	....	....	2
Seduction	16	8	3	2	29	24
Selling Tobacco to Minors	1	....	....	....	1	1
Shooting with Intent	4	....	3	....	7	8
Shopbreaking and Theft	33	1	....	....	34	24
Thefts	1,015	163	59	20	1,257	923
Threats	16	6	....	1	23	8
Trespass	50	4	1	....	55	41
Unlawful Assembly	5	....	....	....	5	27
Vagrancy	347	55	51	1	454	283
Wife Desertion	6	3	2	....	11	7
Wounding with Intent	18	10	2	1	31	17
Total	6,609	939	381	150	8,079	6,693
Liquor Control Act	5,550	595	370	....	6,515	6,495
Grand Total	12,159	1,534	751	150	14,594	13,188

DISPOSITION OF ALL CASES PROSECUTED

Convictions	12,159
Dismissals	1,534
Withdrawals	751
On Remand, Awaiting Trial, etc	150
Total	14,594

COMPARATIVE STATEMENT

A comparative statement of prosecutions, etc., under all Acts and Statutes for the year ending October 31st, 1929, and October 31st, 1930:

	1929	1930
Prosecutions	13,188	14,594
Convictions	11,042	12,159
Dismissals	1,415	1,534
Withdrawals	645	751
On Remand, Awaiting Trial, etc	86	150

Classification of penalties imposed upon persons convicted for all offences against the Criminal Code and other Dominion and Provincial Statutes:

Imprisonment as Penalty	2,343
Imprisonment in Default of Fine	616
Committed to Asylum	70
Fined and Fines Paid	7,525
Sentence Suspended	1,475
Otherwise Disposed of	130
Total	12,159

Arrested with or without warrant and persons summoned for offences against the Criminal Code and other Dominion and Provincial Statutes:

Arrested with Warrant under Criminal Code and other Statutes	1,503
Arrested with Warrant under Liquor Control Act	905
Arrested without Warrant under Criminal Code and other Statutes	2,366
Arrested without Warrant under Liquor Control Act	2,988
Summoned, etc	6,832
Total	14,594

A classification of the ages of persons prosecuted for offences against the Criminal Code and other Dominion and Provincial Statutes (exclusive of the Liquor Control Act):

Age 1–10	24
" 10–15	132
" 15–20	1,357
" 20–30	3,005
" 30–40	1,794
" 40–50	1,055
" 50–60	512
" 60–70	144
Over 70	38
Companies	18
Total	8,079

Classification by nationalities of persons prosecuted for offences against the Criminal Code and other Dominion and Provincial Statutes (exclusive of the Liquor Control Act):

Canadians	5,566
Americans	276
English	474
Indians	103
Irish	139
Italians	113
Poles	164
Russians	100
Scotch	145
Other Nationalities	981
Companies	18
Total	8,079

Classification of the sex of persons prosecuted for all offences against the Criminal Code and other Dominion and Provincial Statutes (exclusive of the Liquor Control Act):

Male	7,686
Female	375
Companies	18
Total	8,079

Classification of marital state of persons prosecuted for all offences against the Criminal Code and other Dominion and Provincial Statutes (exclusive of the Liquor Control Act):

Married	3,394
Single	4,585
Widows	18
Widowers	64
Companies	18
Total	8,079

Number of Search Warrants Executed

Under the Criminal Code	1,876
Under the Liquor Control Act	17,043
Number of Arrests for other Forces	450
Summonses served for other Forces	1,104

STOLEN PROPERTY RECOVERED

Property that had been reported through various sources as stolen, was recovered by members of this Force to the value of $137,178.94.

EXPENDITURE AND REVENUE

The financial reports and statistics show that the expenditure of the Department for the year 1929-30 incurred by all branches of the Force was $907,715.51, an increase of $200,827.47 over the preceding year. This increase is chiefly accounted for by the salary and disbursements in the addition of eighty-five members of the Motorcycle Patrol.

The revenue derived from various sources in connection with the Department during the year 1929-30 was $585,659.19.

Statistical records show that the cost of law enforcement was divided as follows:

Liquor Control Act	40%
All other law enforcements	60%

CONCLUSION

Before closing this report I wish to thank you for the helpful and sympathetic manner in which you have received any proposals I have laid before you either in the matter of law enforcement or for the welfare of the members of the Force, also the Deputy Attorney-General and his staff for their ready assistance given at all times.

I have to express my appreciation of the close co-operation of the Chief Commissioner and Commissioners of the Liquor Control Board in the many matters pertaining to the enforcement of the Liquor Control Act.

I wish to thank all the municipal police forces of the Province, the R.C.M.P., the C.P.R., and C.N.R. Police Forces, also the Provincial and other forces outside the Province for their effective assistance and co-operation during the year.

I desire also to express my appreciation to all ranks of the Force for their good work and faithful attention to duty during the year, and to record my appreciation of the kind and helpful manner in which County Crown Attorneys and Police Magistrates have encouraged and assisted the members of the Force in the execution of their duties.

Respectfully submitted,

VICTOR A. S. WILLIAMS
Commissioner of Police for Ontario.

Tenth Annual Report

OF THE

Mothers' Allowances Commission

(Department of Public Welfare)

FOR THE YEAR

1929-1930

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ONTARIO

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1931

TO HIS HONOUR WILLIAM DONALD ROSS,
Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOUR:

I have the pleasure to present herewith the Tenth Annual Report of the Mothers' Allowances Commission for the year 1929-1930.

Respectfully submitted,

W. G. MARTIN,
Minister of Public Welfare.

COMMISSION

Honourable David Jamieson, M.D., M.C.P.S., *Chairman.*

Miss Belle Thompson, *Vice-Chairman.*

Mrs. Minnie Singer.

Lieutenant-Colonel T. J. Murphy, K.C.

Mr. A. J. Reynolds.

Tenth Annual Report

OF THE

Mothers' Allowances Commission

For the Year 1929-1930

The Commission herewith begs to submit its report for the year ending 31st October, 1930. We have again to state there continues to be a steady increase in the number of beneficiaries, and a corresponding increase in the amount expended under the Act.

The number of families under our care at the end of the financial year was 5,626, being 267 in excess of the number at the same time the previous year. The number of children in these families was 16,908, being an increase of 924 over the previous year.

The amount of money paid to beneficiaries was $2,394,088, whereas the previous year it was $2,306,083, showing an increase of $88,005.

These increases shown are greater than might be expected in proportion to the increase of population but may to some extent be owing to the public being better informed about the Act and the greater desire to take advantage of its provisions. Another reason is that on account of the unemployment situation, many older children of beneficiaries who may have been working and contributing to the support of the family and this source of revenue being cut off, has made it necessary to extend public assistance to families who, under normal conditions, would be self-supporting.

Each family presents its own problems. How to solve the problem for the best interests of the family as well as the state, is the task that confronts the Commission in each application for an allowance. Are the thrifty to be penalized for their thrift, and the indolent rewarded for their indolence? The Act does not permit the granting of an allowance if an applicant has more than $500.00 in liquid assets, but if a man carried insurance, his widow would probably have such assets. To overcome this difficulty a scheme has been devised whereby the assets may become fixed for a period of years, during which time the money is gradually retired by monthly payments to the family. This income is supplemented by a grant under the provision of the Act, assuring the family of an income over a period of years, the number to be determined in accordance with the ages of the children. This scheme is working out very well indeed, not only assuring a steady income while the children are young, but also in assuring men who see the value of carrying a fair amount of insurance that by so doing their families in the event of the death of the father, are not debarred from participating in the benefits of an Act provided for such a contingency, but on the other hand are assured that the family income is larger while the children are young, as a result of their making provision by carrying insurance.

The cost of administration was $84,116.73, being 3.54 per cent. of the amount expended, which is a slight increase over the previous year, but at a lower rate than any other year since the Act came into force.

The Local Boards are efficiently co-operating with us in administering the Act, and we desire to express our commendation of the work being done by our investigators and also all the members of the office staff.

The Commission also desires to express its appreciation of the courtesy and co-operative assistance extended by the Minister in charge of the Department, Honourable W. G. Martin, Minister of Public Welfare.

All of which is respectfully submitted,

D. Jamieson,
Chairman.

SECRETARIAL REPORT

During its twelve monthly sessions the Commission transacted business as undernoted:

Allowances:	
Granted	1,258
Reinstated	215
Increased	445
Decreased	1,109
Cancelled	1,060
Suspended	110
Applications:	
Deferred	133
Judged Ineligible	227
Reviewed	626
Total	5,183

MONTHLY PAYMENTS TO BENEFICIARIES

	Number of Beneficiaries	Increase over Previous Month	Amount Disbursed	Increase over corresponding month of previous year	
				Beneficiaries	Amount
November	5,319	*40	$192,775	201	$6,209
December	5,371	52	197,405	153	5,646
January	5,394	23	196,567	139	3,689
February	5,412	18	197,317	146	5,582
March	5,421	9	197,967	98	2,702
April	5,442	21	198,737	96	3,897
May	5,429	*13	197,540	87	3,005
June	5,436	7	197,775	89	2,240
July	5,539	103	203,560	196	9,275
August	5,607	68	204,990	233	8,020
September	5,615	8	204,805	282	11,235
October	5,626	11	204,650	267	8,200
	....	320 *53	$2,394,088	....	$69,700
Less cheques returned to Provincial Treasury for cancellation	....	....	17,090	....	*1,215
	....	....	$2,376,998	....	$70,915

*Decrease.

COMPARATIVE STATEMENT

Year	Number of Beneficiaries	Amount Disbursed
1929-1930	5,626	$2,376,998
1928-1929	5,359	2,306,083
Net Increase	267	70,915
Average monthly increase	22.25	$5,909.58

SUMMARY OF ALLOWANCES PAID

Number of Beneficiaries	Name of Municipality	Amount Disbursed	Less Cancelled Cheques		Adjustments			Refunds Cr.
					Residence		Lacking Residence Cr.	
					Dr.	Cr.		
	Counties	$	$	$	$	$	$	$
33	Brant	11,200		11,200				
42	Bruce	15,650	30	15,620	105	25	80	
59	Carleton	23,900	160	23,740			125	
19	Dufferin	6,815	105	6,710				
28	Elgin	10,105	130	9,975	35	80		
74	Essex	29,160	160	29,000		35	220	
19	Frontenac	5,570		5,570		280	150	
77	Grey	28,770	190	28,580	90	40		175
32	Haldimand	12,090	50	12.040				
15	Haliburton	5,340	15	5,325		240	25	
36	Halton	12,960	135	12,825			50	
84	Hastings	27,260	90	27,170	360	75	50	
53	Huron	20,835	40	20,795		135		
44	Kent	15,402	140	15,262			240	
23	Lambton	8,245	70	8,175		765		
44	Lanark	16,110	50	16,060				
32	Leeds	11,900	170	11,730	20		20	
25	Grenville	8,930	95	8,835				
24	Lennox-Addington	7,350	55	7,295		360		
45	Lincoln	18,065	135	17,930		25	175	
64	Middlesex	23,890	115	23,775	790		105	
35	Norfolk	11,845		11,845			45	
44	Northumberland	15,855	185	15,670				39.22
39	Durham	12,925	30	12,895				
40	Ontario	13,845	140	13,705			120	
24	Oxford	9,515	55	9,460				
27	Peel	9,805	75	9,730				
16	Perth	5,745		5,745				
41	Peterborough	14,675	125	14,550			600	
57	Prescott	25,175	50	24,965				25
58	Russell	23,615	210	23,565				
21	Prince Edward	9,040		9,040			135	
144	Renfrew	59,155	720	58,435			160	
141	Simcoe	58,760	325	58,435			445	
82	Stormont	33,700	270	33,430				2,769
22	Dundas	9,105	25	9,080				
43	Glengarry	17,085	165	16,920				
50	Victoria	20,115	135	19,980	240		140	
51	Waterloo	20,040	115	19,925			50	
63	Welland	24,806	150	24,656	140	100	80	
30	Wellington	10,630		10,630				
28	Wentworth	12,705	35	12,670		230		
316	York	118,455	1,310	117,145	415	180	435	1,204 78
2244	Sub-total	856,143	6,055	850,088	2,195	2,570	3,450	4,213
	Towns							
17	Brockville	8,965	30	8,935				
8	Gananoque	2,620		2,620				
8	Ingersoll	3,680		3,680				
	Pelee Island	300	60	240				
9	Prescott	3,510		3.510				
9	Smith's Falls	3,110		3,110	140			
5	St. Mary's	2,340		2,340				
9	Trenton	3,720		3,720		140		
11	Walkerville	4,755	65	4,690			60	
17	Indian Reserves	6,895	50	6,845		10		
93	Sub-total	39,895	205	39,690	140	150	60	

DURING YEAR, 1928-1929.

100% Net Amount	Fifty Per Cent. Chargeable to Municipalities	Amount Outstanding 31st October 1929	Amount Due by Municipalities	Amount Received from Municipalities	Amount Outstanding 31st October, 1930
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
11,200	5,600 00	437 50	6,037 50	5,525 00	512 50
15,620	7,810 00	612 50	8,422 50	7,795 00	627 50
23,615	11,807 50	952 50	12,760 00	11,737 50	1,022 50
6,710	3,355 00	550 00	3,905 00	3,647 50	257 50
9,930	4,965 00	377 50	5,342 50	4,950 00	392 50
28,745	14,372 50	1,140 00	15,512 50	14,245 00	1,267 50
5,140	2,570 00	220 00	2,790 00	2,680 00	110 00
28,455	14,227 50	1,105 00	15,332 50	14,122 50	1,210 00
12,040	6,020 00	515 00	6,535 00	6,060 00	475 00
5,060	2,530 00	445 00	2,975 00	2,745 00	230 00
12,775	6,387 50	507 50	6,895 00	6,355 00	540 00
27,405	13,702 50	5,275 00	18,977 50	17,642 50	1,335 00
20,660	10,330 00	868 00	11,198 00	10,350 50	847 50
15,022	7,511 00	631 00	8,142 00	7,487 00	655 00
7,410	3,705 00	312 50	4,017 50	3,655 00	362 50
16,060	8,030 00	590 00	8,620 00	7,865 00	755 00
11,730	5,865 00	785 00	6,650 00	10,210 00	857 50
8,835	4,417 50	....	4,417 50	....	....
6,935	3,467 50	310 00	3,777 50	3,422 50	355 00
17,730	8,865 00	775 00	9,640 00	8,930 00	710 00
24,460	12,230 00	855 00	13,085 00	12,040 00	1,045 00
11,800	5,900 00	485 00	6,385 00	5,857 50	527 50
15,630 78	7,815 39	1,157 50	8,972 89	14,162 89	1,257 50
12,895	6,447 50	....	6,447 50	....	....
13,585	6,792 50	527 50	7,320 00	6,725 00	595 00
9,460	4,730 00	432 50	5,162 50	4,800 00	362 50
9,730	4,865 00	402 50	5,267 50	4,835 00	432 50
5,745	2,872 50	237 50	3,110 00	2,892 50	217 50
13,950	6,975 00	582 50	7,557 50	6,935 00	622 50
24,940	12,470 00	2,145 00	14,615 00	24,432 50	1,965 00
23,565	11,782 50	....	11,782 50	....	....
8,905	4,452 50	390 00	4,842 40	4,497 50	345 00
58,275	29,137 50	4,735 00	33,872 50	21,927 50	11,945 00
57,990	28,995 00	2,472 50	31,467 50	29,167 50	2,300 00
30,661	15,330 50	2,417 50	17,748 00	28,208 00	2,540 00
9,080	4,540 00	....	4,540 00	....	....
16,920	8,460 00	....	8,460 00	....	....
20,080	10,040 00	845 00	10,885 00	10,040 00	845 00
19,875	9,937 50	835 00	10,772 50	10,025 00	747 50
24,616	12,308 00	1,021 50	13,329 50	12,330 50	999 00
10,630	5,315 00	437 50	5,752 50	5,287 50	465 00
12,440	6,220 00	617 50	6,837 50	6,397 50	440 00
15,740 22	57,870 11	4,697 50	62,567 61	57,603 86	4,963 75
842,050	421,025 00	41,703 00	462,728 00	417,590 25	45,137 75
8,935	4,467 50	430 00	4,897 50	4,545 00	352 50
2,620	1,310 00	95 00	1,405 00	1,290 00	115 00
3,680	1,840 00	195 00	2,035 00	1,890 00	145 00
240	120 00	15 00	135 00	165 00	30 00
3,510	1,755 00	207 50	1,962 50	1,787 50	175 00
3,250	1,625 00	182 50	1,807 50	1,537 50	270 00
2,340	1,170 00	85 00	1,255 00	1,162 50	92 50
3,580	1,790 00	187 50	1,977 50	1,802 50	175 00
4,630	2,315 00	455 00	2,770 00	2,595 00	175 00
6,835	3,417 50	297 50	3,715 00	3,475 00	240 00
39,620	19,810 00	2,150 00	21,960 00	20,250 00	1,740 00

SUMMARY OF ALLOWANCES PAID

Number of Beneficiaries	Name of Municipalities	Amount Disbursed	Less Cancelled Cheques		Adjustments			Refunds Cr.
					Residence		Lacking Residence Cr.	
					Dr.	Cr.		
	Cities	$	$	$	$	$	$	$
33	Belleville	14,065	90	13,975			100	
77	Brantford	33,035	200	32,835				
26	Chatham	11,440	100	11,340				
35	Fort William	14,985	85	14,900		60	100	
21	Galt	10,545	60	10,485				
38	Guelph	17,375	120	17,255				
297	Hamilton	133,960	1,190	132,770	265		45	90
52	Kingston	24,370		24,370			160	
50	Kitchener	19,855	40	19,815			125	
148	London	70,550	390	70,160	200	30	270	350
39	Niagara Falls	9,465	40	9,425				
24	North Bay	19,090	160	18,930				
38	Oshawa	17,770	110	17,660				
305	Ottawa	150,890	1,190	149,700	60		300	
28	Owen Sound	14,695	90	14,605	65		100	17
56	Peterborough	25,584		25,584				
41	Port Arthur	19,495	265	19,230			240	
24	Sarnia	10,150		10,150		25	85	
35	Sault Ste. Marie	15,220	175	15,045			35	
40	Stratford	19,275	75	19,200				
24	Sudbury	2,720	60	2,660	105			
59	St. Catharines	28,180	70	28,110	25		150	
25	St. Thomas	11,605	110	11,495				
1140	Toronto	545,196	3,610	541,586	605	730	835	2,068
27	Welland	12,400	50	12,350	100	155		
83	Windsor	34,375	575	33,800			410	
23	East Windsor	8,240		8,240				
17	Woodstock	7,195		7,195				
2805	Sub-total	1,301,725	8,855	1,292,870	1,425	1,000	2,955	2,525
5142	Sub-total	2,197,763	15,115	2,182,648	3,760	3,720	6,465	6,738
	Province of Ontario (100%)							
27	Algoma	10,130	110	10,020	280			860
23	Kenora	8,205	135	8,070				
13	Manitoulin	5,335	125	5,210				
35	Muskoka	13,315	145	13,170				
81	Nipissing	34,335	340	33,995				
55	Parry Sound	20,840	95	20,745				
24	Rainy River	8,755	30	8,725				
64	Sudbury	31,395	370	31,025		105		
143	Temiskaming	57,430	450	56,980				
16	Thunder Bay	6,585	110	6,475				
481	Sub-total	196,325	1,910	194,415	280	105		860
5623	Totals	2,394,088	17,025	2,377,063	4,040	3,825	6,465	7,598
	Province of Ontario Cancelled cheques. Originally charged to Province: 313 London 20 199 Essex 20 127 Waterloo 25		65					
	100% paid to beneficiaries lacking one year's municipal residence				6,465			
	Residence adjustments					215		
	Refunds credited to municipalities				7,598			
		2,394,088	17,090	2,376,998	18,103	4,040	6,465	7,598

DURING YEAR, 1929-1930—*Continued.*

100% Net Amount	Fifty Per Cent. Chargeable to Municipalities	Amount Outstanding 31st October, 1929	Amount Due by Municipalities	Amount Received from Municipalities	Amount Outstanding 31st October, 1930
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
13,875	6,937 50	535 00	7,472 50	6,837 50	635 00
32,835	16,417 50	1,242 50	17,660 00	16,230 00	1,430 00
11,340	5,670 00	450 00	6,120 00	5,640 00	480 00
14,740	7,370 00	522 50	7,892 50	7,265 00	627 50
10,485	5,242 50	425 00	5,667 50	5,265 00	402 50
17,255	8,627 50	717 50	9,345 00	8,607 50	737 50
132,900	66,450 00	5,175 00	71,625 00	65,847 50	5,777 50
24,210	12,105 00	985 00	13,090 00	12,102 50	987 50
19,690	9,845 00	1,387 50	11,232 50	9,317 50	1,915 00
69,710	34,855 00	2,700 00	37,555 00	34,527 50	3,027 50
9,425	4,712 50	355 00	5,067 50	4,587 50	480 00
18,930	9,465 00	747 50	10,212 50	9,375 00	837 50
17,660	8,830 00	785 00	9,615 00	8,890 00	725 00
149,460	74,730 00	6,325 00	81,055 00	62,152 50	18,902 50
14,553	7,276 50	542 50	7,819 00	7,272 50	555 00
25,584	12,792 00	1,014 50	13,806 50	12,627 00	1,171 00
18,990	9,495 00	797 50	10,292 50	9,545 00	747 50
10,040	5,020 00	382 50	5,402 50	4,940 00	462 50
15,010	7,505 00	487 50	7,992 50	7,340 00	652 50
19,200	9,600 00	767 50	10,367 50	9,587 50	780 00
2,765	1,382 50	....	1,382 50	880 00	502 50
27,985	13,992 50	1,120 00	15,112 50	13,920 00	1,192 50
11,495	5,747 50	1,070 00	6,817 50	5,807 50	1,010 00
538,558	2,692 79	8,962 00	278,241 00	250,960 50	27,280 50
12,295	6,147 50	515 00	6,662 50	5,677 50	985 00
33,390	16,695 00	1,217 50	17,912 50	16,347 50	1,565 00
8,240	4,120 00	277 50	4,397 50	3,930 00	467 50
7,195	3,597 60	240 00	3,837 50	3,522 50	315 00
1,287,815	643,907 50	39,746 50	683,654 00	609,002 50	74,651 50
2,169,485	1,084,742 50	83,599 50	1,168,342 00	1,046,842 75	121,529 25
9,440	....	....	....	....	....
8,070	....	....	....	....	....
5,210	....	....	....	....	....
13,170	....	....	....	....	....
33,995	....	....	....	....	....
20,745	....	....	....	....	....
8,725	....	....	....	....	....
30,920	....	....	....	....	....
56,980	....	....	....	....	....
6,475	....	....	....	....	....
193,730	....	....	....	....	....
2,363,215	....	....	....	....	....
....	....	....	....	....	....
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....	....	....	....	....	....

FINANCIAL STATEMENT

Amount appropriated for the payment of allowances	$2,404,000
Amount expended	2,376,998
	$27,002
Cancelled cheques credited to Casual Revenue	165
Unexpended balance	$27,167

The amount expended was disbursed in:

	Gross	Less Cancelled Cheques	Net
Counties	$856,143	$6,055	$850,088
Cities	1,301,725	8,855	1,292,870
Separated Towns	33,000	155	32,845
Indian Reserves	6,895	50	6,845
	$2,197,763	$15,115	$2,182,648
Judicial Districts	196,325	1,910	194,415
	$2,394,088	$17,025	$2,377,063
Province of Ontario		65	65
	$2,394,088	$17,090	$2,376,998

Of the amount disbursed ($2,376,998) $1,084,742.50 was charged to municipalities, and the balance of $1,291,255.50 to the Province:

Municipalities:	
Counties	$421,025 00
Cities	643,907 50
Separated Towns	16,392 50
Federal Department of Indian Affairs	3,417 50
	$1,084,742 50
Province of Ontario:	
50 Per cent. of amount disbursed in Municipalities	$1,084,742 50
100 Per cent. of amount disbursed in Judicial Districts	193,730 00
100 Per cent. paid to beneficiaries lacking one year's municipal Residence	6,465 00
Less	215 00
Adjustments	6,250 00
Refunds credited to Municipalities	7,598 00
	$1,292,320 50
	2,377,063 00
Less cancelled cheques credited to Province	65 00
	$2,376,998 00

Amount expended during the ten-year period, November, 1920, October 31st, 1930:

Year Ending October 31st:	
1921	$774,667
1922	1,382,138
1923	1,612,701
1924	1,715,205
1925	1,790,680
1926	1,886,095
1927	2,017,614
1928	2,205,877

FINANCIAL STATEMENT—Continued

1929	2,324,388	
1930	2,394,088	
		$18,103,453 00
Less cancelled cheques		97,482 00
		$18,005,971 00
Amount received from Municipalities		7,767,910 25
		$10,238,060 75
Less amount outstanding and due by Municipalities 31st October, 1930		121,529 25
Net cost to Province for the ten-year period		$10,116,531 50

REVENUE STATEMENT

The sum of $1,054,805.90 was received during the year, deposited periodically with the Provincial Treasurer, and credited to:

Municipalities		$1,046,842 75
Province:		
Casual revenue	$165 00	
Refunds:		
Department of Pensions and National Health	7,381 78	
Beneficiaries	416 37	
		7,963 15
		$1,054,805 90

ADMINISTRATION EXPENSE

Administration expense of $84,116,73=3.54 per cent. of amount disbursed in allowances was allocated to:

Permanent staff salaries	$43,595 85
Temporary staff salaries	7,853 12
Per diem allowance to Commissioners	2,572 00
Travelling expenses	22,049 12
Local Boards' expense	3,442 09
Stationery, printing, etc	4,604 55
	$84,116 73

STATISTICAL REPORT YEAR 1929-30

STATEMENT REGARDING ALL BENEFICIARIES ON THE ALLOWANCE PAY LIST DURING THE YEAR ENDING OCTOBER 31ST, 1930

Number of beneficiaries on allowance list, October 31st, 1929	5,357
" " " " October 31st, 1930	5,623
Increase of beneficiaries during fiscal year	266 or 4.97%
Number of beneficiaries on allowance list, October 31st, 1930	5,623
" " " " part of year but later cancelled	1,089
	6,712
Number of applications declared ineligible during year ending October 31st, 1930	239

Causes of Dependency	Number of Families		Number of Children	
Death of father (widow)		4,507		13,212
Incapacitation:				
(*a*) Insanity (husband in asylum)	187		611	
(*b*) Other causes	1,298		3,985	
		1,485		4,596
Desertion		452		1,173
Death of both parents (foster-mother)		268		639
		6,712		19,620

Number of Children in these Families	Number of families	Number of children
Families with 1 child under 16 years and totally and permanently incapacitated husband or child over 16 years	168	168
" " 2 children under 16 years	3,226	6,452
" " 3 " " 16 "	1,663	4,989
" " 4 " " 16 "	846	3,384
" " 5 " " 16 "	439	2,195
" " 6 " " 16 "	226	1,356
" " 7 " " 16 "	98	686
" " 8 " " 16 "	28	224
" " 9 " " 16 "	14	126
" " 10 " " 16 "	4	40
	6,712	19,620

Average Number of Children in these Families	Number of families	Number of children	Average number of children per family
City:			
Cities	3,353	9,273	2.77
County:			
Counties	2,672	8,087	3.03
Judicial Districts	595	2,003	3.37
	3,267	10,090	3.37
Town:			
Towns	92	257	2.79
	6,712	19,620	2.92

NATIONALITY BY BIRTH OF BENEFICIARIES

British:		
Canadian	4,261	
English	1,260	
Scottish	325	
Irish	178	
Other British	77	
		6,101
Others of Foreign Birth now Naturalized:		
American	130	
Russian	78	
Italian	92	
Polish	93	
Finnish	41	
Austrian	42	
Swedish	11	
German	12	
Norwegian	10	
Galician	8	
Others	94	
		611
		6,712

NATIONALITY BY PERCENTAGES

British:		
Canadian	63.48%	
Other British	27.42%	
		90.90%
Foreign (now naturalized)		9.10%
		100%

INCAPACITATION CASES

Beneficiaries whose husband or child over 16 years of age is totally and permanently incapacitated.

On the allowance pay list at October 31st, 1930	1,260
" " " " part of the year, but later cancelled	225
	1,485

Increase during the year in the number of incapacitation cases.....242 or 19.47%

Causes of Incapacitation:

Tuberculosis		349
Diseases of the nervous system and organs of special sense:		
Paralysis	121	
Epilepsy	21	
Nerves	53	
Other causes	35	
		230
Mental (husband in asylum)		187
Diseases of the heart and arteries		222
Diseases of the bones and joints:		
Arthritis	87	
Osteomyelitis	5	
Other causes	17	
		109
Diseases of the respiratory system		70
Diseases of the kidneys, bladder and urinary passages		48
Cancer		41
Blind and other complications		42
Diseases of the digestive system		49
Venereal diseases		13
Senility		15
Anaemia		23
Locomotor ataxia		7
Accident		19
Rheumatism		20
Diseases of the skin		10
Other causes		31
		1,485

Number of Children in all Incapacitation Cases	Families	Children
Families with 1 child under 16 years and totally and permanently incapacitated husband or child over 16 years	165	165
" " 2 children under 16 years	483	966
" " 3 " " 16 "	343	1,029
" " 4 " " 16 "	232	928
" " 5 " " 16 "	141	705
" " 6 " " 16 "	74	444
" " 7 " " 16 "	27	189
" " 8 " " 16 "	12	96
" " 9 " " 16 "	6	54
" " 10 " " 16 "	2	20
	1,485	4,596

All Families where Tuberculosis is the Cause of Dependency:

13.20 Per cent. of allowances paid due to tuberculosis.

Widows:

Number of beneficiaries on the allowance pay list during year ending October 31st, 1930, in whose case tuberculosis was the causative factor in the death of the husband:

On the pay list, October 31st, 1930	422	
On part of year but later cancelled	79	
		501
Amount paid to these families during the year		$181,340

Incapacitation:

Number of beneficiaries on the allowance pay list during the year whose husbands were totally and permanently incapacitated because of tuberculosis:

On the pay list, October 31st, 1930 286

On part of year but later cancelled 63

—— 349

Amount paid to these families during the year 120,245

Foster-Mother:

During the year there were on the allowance pay list fifty-one foster-mothers of children whose parent or parents died of tuberculosis (in fourteen cases, both parents; in seventeen cases, the father; and in twenty cases, the mother):

On the pay list, October 31st, 1930 39

On part of year but later cancelled 12

—— 51

Amount paid to these families during the year 15,780

Total families 901

Total expenditures $317,365

Families of	Children in these Families					
	Widow		Incapacitation		Foster-Mother	
	Families	Children	Families	Children	Families	Children
1 Child	....	....	22	22	....	....
2 Children	265	530	135	270	41	82
3 "	138	414	85	255	7	21
4 "	56	224	52	208	1	4
5 "	20	100	33	165	2	10
6 "	11	66	16	96	....	....
7 "	7	49	2	14	....	....
8 "	2	16	3	24	....	....
9 "	1	9	1	9	....	....
10 "	1	10	....	....	....	....
	501	1,418	349	1,063	51	117

Beneficiaries in	Families	Children	Amount Distributed
Counties	342	1,030	$108,450
Judicial Districts	86	285	28,565
Cities	457	1,238	175,195
Towns	16	35	5,155
	901	2,588	$317,365

CAUSES OF CANCELLATION

One of two children now 16 years or not at school	538
Beneficiary remarried	135
Should be self-supporting	63
Unsatisfactory home conditions	67
Husband no longer totally and permanently incapacitated	93
Beneficiary no longer resident in Province of Ontario	26
Only one child or no children with the mother	23
Husband no longer in asylum	9
Beneficiary died	22
Now in possession of assets of a disqualifying amount	22
Now in receipt of allowance from other funds	25
Now in possession of disqualifying equity in property	3
Incapacitated husband died and only one child under 16 years	10
Voluntary withdrawal	8
Beneficiary in an institution	2
Incapacitated husband no longer in care of wife and only one child under 16 years	13
Residence of husband now known (desertion cases)	3
Address of beneficiary not known	17
	1,089

CAUSES OF INELIGIBILITY

Value of property or other assets disqualifies	59
Applicant's husband or child over 16 years of age not totally and permanently incapacitated	54
Not eligible under desertion clause	26
Only one child under 16 years of age in attendance at school	9
Residence requirements not fulfilled	12
Unsatisfactory home conditions	6
Sufficient income to maintain the home	23
Children not with mother	1
In receipt of allowance from other funds	1
Applicant not a British Subject	5
Applicant divorced or legally separated	1
Fost-Mother applications ineligible as children are not orphans	4
Only one child under 16 years of age and incapacitated husband not in wife's care	1
Applicant's husband in prison	2
Qualifying child not born under lawful wedlock	1
No proof of marriage	1
Deferred for further information	33
	239

CAUSES OF DEATH OF FATHER

Widow cases on the allowance list, at October 31st, 1930	3,770
" " " the allowance list part of year, but later cancelled	737
	4,507
Diseases of the Respiratory System	878
" " Circulatory System	699
" " Nervous System and Organs of Special Sense	366
" " Digestive System	364
" " Genito, Urinary System and Annex (non-venereal)	245
" " Bones and Organs of Locomotion	23
" " Skin and Cellular Tissue	6
External Causes:	
Motor car accident	75
Railway accident	29
Drowning accident	76
Poisoning accident	104
Other accidents	216
Murder	14
Suicide	96
Other sudden deaths	2
	3,193

CAUSES OF DEATH—Continued

Epidemic, Endemic and Infectious Diseases:	
Typhoid	81
Smallpox	5
Scarlet Fever	5
Diphtheria	7
Influenza	214
Erysipelas	6
Tuberculosis	501
Venereal Diseases	36
Septicaemia	4
Other causes	4
General Diseases:	
Cancer	358
Anaemia	45
Alcoholism	10
Arthritis	2
Goitre	8
Locomotor Ataxia	2
General Debility	1
Senility	7
Tumerous Growths	9
Other causes	9
	4,507

O. G. Clarke,
Statistician.

LOCAL BOARDS

(Those marked * are municipal nominees)

COUNTIES

Brant........................Chairman, Mr. J. P. McCammon, Paris.
Vice-Chairman, Mrs. G. T. Wood, Grandview.
Secretary, Mrs. Wm. Kerr, St. George.
*Mr. E. A. Standing, Burford.
Mrs. W. Herbert Burtch, R.R. No. 1, Scotland.
*Mr. Adam Allan, R.R. No. 2, Caledonia.

Bruce........................*Chairman, Mr. D. J. Byers, Reeve of Wiarton.
Secretary, Mrs. I. Shoemaker, Paisley.
Mrs. F. E. Coombe, Kincardine.
Rev. R. Perdue, Walkerton.
Mr. Robert McVittie, Southampton.
Mr. W. Brooks, J.P., Parkhead.
Mr. B. B. Caldwell, Chesley.
*Mr. Robert Sloan, R.R. No. 2, Chesley.

Carleton.....................Chairman, Mr. J. E. Caldwell, City View P.O.
*Vice-Chairman, Mrs. J. A. Heney, Westboro.
Mrs. E. T. Coldry, Cummings Bridge.
Rev. (Col.) H. R. Steacy, Westboro.
*Rev. J. J. Brownlee, Billings Bridge P.O.

Dufferin.....................*Chairman, Mr. T. J. Henderson, Orangeville.
Mr. Hugh Falconer, Shelburne.
Mr. H. F. Tuck, Orangeville.
Mrs. Dr. Berwick, Grand Valley.
*Mrs. R. W. Brett, Shelburne.

Dundas.......................Chairman, Mr. Wesley Hamilton, Chesterville.
Secretary, Mrs. James Hughes, Chesterville.
*Mr. Charles Marcellus, Dunbar.
Mrs. Ezra Summers, Winchester.
Mr. Arthur Flynn, Morrisburg.
*Mrs. A. B. Allison, Morewood.

Durham.......................*Chairman, Mr. F. W. Galbraith, Port Hope.
*Vice-Chairman, Mrs. Arthur VanCamp, Burketon.
Secretary, Mrs. A. L. Nicholls, Bowmanville.
Mr. Harry Bland, R.R. No. 2, Ida.
Miss B. M. Turner, Millbrook.
Acting Chairman, Mr. C. J. Thornton, Orono.

Elgin........................Chairman, Mr. R. A. Penhale, R.R. No. 8, St. Thomas.
Vice-Chairman, Mrs. C. S. Bridgman, Aylmer.
Secretary, Mrs. B. B. Graham, Rodney.
*Mr. S. S. McDermand, R.R. No. 1, Port Burwell.
*Mr. D. A. McNabb, Dutton.

Essex........................*Chairman, Mr. Judson Scratch, Kingsville.
*Vice-Chairman, Mrs. Severin Ducharme, Belle River.
Secretary, Mrs. George Elliott, Brock St., Sandwich.
Mr. W. P. Coyle, Sandwich,
Mr. Maurice Renaud, Tecumseh.
Mrs. R. R. Brett, Essex.

Frontenac....................Chairman, Mr. J. W. Bradshaw, County Clerk, Kingston.
Secretary, Mrs. J. L. F. Sproule, Westbrook.
Mr. Chas. Truscott, Sydenham.
Mrs. J. D. Shibley, Harrowsmith.
*Mrs. Fred Ferguson, Inverary.
*Mr. John A. Simpson, Cataraqui.

LOCAL BOARDS—*Continued*

(Those marked * are municipal nominees)

COUNTIES—*Continued*

GLENGARRY .... *Chairman, Mr. A. J. Robertson, Martintown.
Vice-Chairman, Mr. R. J. Pattengale, Lancaster.
Secretary, Mrs. A. H. Robertson, Maxville.
Mrs. A. MacNaughton, Alexandria.
Mr. William Blyth, R.R. No. 1, Maxville.
Mr. J. W. McLeod, R.R. No. 2, Dalkeith.
Mr. Allen Peter McDonald, Summerstown Station.
*Mr. D. Robertson, Glen Robertson.
Mrs. Oscar Gareau, Alexandria.

GRENVILLE .... Chairman, Mr. Joseph Goodin, Roebuck.
Vice-Chairman, Mr. A. E. Langstaff, Kemptville.
*2nd Vice-Chairman, Mr. J. Harold Kidd, Burritts Rapids.
Secretary, Mrs. J. A. Connell, Algonquin.
*Mr. W. P. Walker, Cardinal.

GREY .... Chairman, Mr. Herbert G. Brigham, Hanover.
Vice-Chairman, Mrs. B. J. Long, Meaford.
*Secretary, Mrs. Wm. Dingwall, Hopeville.
*Mr. A. E. Colgan, Markdale.
Mr. John Mills, Hanover.
Mr. W. J. Miller, Bognor.

HALDIMAND .... *Chairman, Mr. Harrison Arrell, K.C., Caledonia.
Secretary, Mrs. Joseph Peart, Cayuga.
Mrs. E. Kelly, Dunnville.
Mr. S. E. Lindsay, Hagersville.
*Mr. W. J. Saunders, Jarvis.

HALIBURTON .... Chairman, Mrs. George Potts, Haliburton.
*Secretary, Mr. H. B. Feir, Haliburton.
*Mr. W. R. Curry, Haliburton.
Mr. John Pearson, Haliburton.
Mrs. Wm. Nichol, Haliburton.

HALTON .... Chairman, Mr. E. F. Earl, Milton.
*Secretary, Mr. Geo. Harris, Burlington.
*Mr. Geo. W. Cleave, R.R. No. 1, Norval.
Mrs. J. R. Elliott, Milton.
Mr. W. H. Morden, Oakville.
Mrs. Malcolm McLean, Acton.

HASTINGS .... Chairman, Mr. Alexander Moore, 160 George St., Belleville.
*Vice-Chairman, Mrs. Chas. Vanderwater, Foxboro, R.R.
*Mr. W. H. Nugent, 230 Church St., Belleville.
Mrs. Simeon Fox, Madoc.
Mr. Thomas Montgomery, Stirling.

HURON .... *Chairman, Mr. George W. Holman, Goderich.
Secretary, Mr. A. T. Cooper, Clinton.
Mrs. W. A. McKim, Goderich.
Mrs. H. Fowler, Clinton.
*Major R. S. Hays, Seaforth.

KENT .... Chairman, Mr. John F. Fletcher, Chatham.
Vice-Chairman, Mrs. Archibald Pow, Ridgetown.
Secretary, Mrs. Catherine McVean, Dresden.
*Mr. John Vance, Thamesville.
*Mr. H. S. Hornick, R.R. No. 3, Tilbury.

LAMBTON .... Chairman, Mr. L. W. Harkness, Mandaumin.
Vice-Chairman, Mrs. Neil Grant, Becher.
*Secretary, Mr. Fred Eastman, Arkona.
Mr. Jos. Hackett, Petrolia.
*Mr. James Currie, R.R. No. 4, Dresden.

LOCAL BOARDS—*Continued*

(Those marked * are municipal nominees)

COUNTIES—*Continued*

Lanark	Chairman, Mr. Willard R. Knox, Carleton Place. *Vice-Chairman, Mrs. Carrie Fields, Robertson Lanark. Secretary, Mrs. J. K. Kelly, Almonte. Mr. Daniel J. Hogan, R.R. No. 4, Perth. Mr. Peter McCallum (Warden), Almonte. *Mr. J. H. Devlin, Perth.
Leeds	Chairman, Mr. Wm. Bracken, Seely's Bay. Secretary, Miss F. E. Lyons, Portland. *Mr. M. B. Holmes, Athens. *Mr. Omar Buell, Mallorytown. Mrs. R. G. Leggett, Newboro.
Lennox and Addington	Chairman, Mrs. Wesley Wager, Centreville. *Vice-Chairman, Mrs. W. G. Swayne, Bath. *Secretary, Wilfred S. Wilson (County Clerk), Napanee. Mr. John L. Smith, J.P., R.R. No. 2, Napanee. Mr. John A. Brown, Tamworth. Mr. Christie Kellar, R.R. No. 5, Napanee. *Mr. J. B. Elliott (Warden), R.R. No. 2, Napanee.
Lincoln	Chairman, Mr. D. H. Moyer, R.R. No. 1, Vineland. *Secretary, Mr. Wm. Richardson, Merritton. *Mr. J. E. Masters, Niagara-on-the-Lake. Mrs. E. W. Fry, Vineland. Mrs. Jas. Hobden, Beamsville.
Middlesex	*Chairman, Mr. John Stuart, County Clerk, London. Secretary, Miss Mary Grant, 110 Dundas St., London. *Mr. Allan McPherson, Glencoe. Mr. J. H. Young, Parkhill. Mrs. W. A. Currie, Sr., Glencoe.
Norfolk	Chairman, Mr. Ed. D. Halliday, Simcoe. Vice-Chairman, Mr. Jas. Brayley, R.R. No. 2, Langton. *Secretary, Mrs. G. A. Smith, Box 229, Delhi. *Mrs. Rowena Blacklock, Port Rowan. Mr. H. A. Carter, Simcoe.
Northumberland	*Chairman, Mr. J. Nelson Stone, Campbellford. *Secretary, Mr. Edmund Quinn, Colborne. Mrs. M. E. Maybee, R.R. No. 6, Trenton. Mrs. Findlay Clark, Brighton. Mr. A. R. Dundas, Cobourg. Miss May McCaughey, Cobourg.
Ontario South	Chairman, Mr. Robert Thompson, Whitby. Secretary, Miss Ella Richardson, Box 604, Whitby. *Mrs. Malcolm Forsythe, Claremont. *Mr. Levi Ellins, Columbus. Mr. Chas. R. Stewart, Port Perry.
Ontario North	*Chairman, Mr. John Wetheral, Cannington. Vice-Chairman, Mr. Henry Heavener, R.R. No. 1, Atherley. *Secretary, Mrs. J. L. McLennan, Beaverton. Mrs. S. S. Sharpe, Uxbridge. Mrs. Lawrence A. Cooper, R.R. No. 1, Washago.
Oxford	*Chairman, Mr. Robert Oliver, Thamesford. Vice-Chairman, Mrs. E. V. Tilson, Tillsonburg. Secretary, Mr. A. E. Roth, Woodstock. *Mr. Alexander Riach, R.R. No. 8, Woodstock. Mr. James Pullin, R.R. No. 1, Woodstock.
Peel	Secretary and Chairman, Mr. T. W. Duggan, Brampton. Vice-Chairman, Mr. David Wilson, R.R. No. 2, Bolton. *Secretary, Mr. J. H. Pinchin, Clarkson. Mrs. John A. McLachlan, Alton. *Mrs. J. M. McLean, Fort Mississauga Rd., R.R. No. 1, Port Credit.

LOCAL BOARDS—*Continued*

(Those marked * are municipal nominees)

COUNTIES—*Continued*

PERTH	Chairman, Mr. William Martyn, Mitchell. *Vice-Chairman, Mrs. Millie R. Parker, 212 Ontario St., Stratford. Secretary, Mr. Duncan MacVannel, St. Mary's. Mr. Wm. Scott, West Monkton. *Mrs. James Donaldson, Listowel.
PETERBOROUGH	Chairman, Col. R. E. Birdsall, Birdsall P.O. Vice-Chairman, Mr. John McIntosh, R.R. No. 3, Peterborough. Secretary, Mrs. B. W. Squire, Norwood. *Mr. C. J. Darling, Warsaw. *Mrs. J. W. Ridpath, Lakefield.
PRESCOTT	Chairman, Mrs. James Ross, Hawkesbury. *Secretary, Mr. Elie O. Bertrand, L'Orignal. Mr. Felix Cadieux, Vankleek Hill. *Mrs. Denis Harbic, Hawkesbury. Mr. Ausem Matts, Vankleek Hill.
PRINCE EDWARD	Chairman, Dr. Geo. A. Whitman, Picton. Secretary, Mrs. S. J. Collier, Picton. Mrs. Frank Morden, Box 451, Picton. *Mr. Herbert Cooper, Woodrous P.O. Mrs. Edwy A. Morden, Picton. *Mr. Wm. H. Monaghan, Wellington.
RENFREW	Chairman, Dr. G. G. McNab, Renfrew. Vice-Chairman, Mr. Thos. McKibbon, Eganville. *Secretary, Miss Julia G. Mallon, Pembroke. *Mrs. Elizabeth Davidson, Beachburg. Mr. J. J. Neilson, Arnprior. Mr. Thomas Church, Arnprior.
RUSSELL	Secretary and Chairman, Rev. W. B. Morgan, Britannia Bay. *Miss C. Longtin, Bourget. Mr. W. T. Erskine, Rockland. *Mr. Albert Emard (Notary), Embrun.
SIMCOE	Chairman, Mr. J. T. Simpson, Elmvale. Vice-Chairman, Mrs. John C. McMullen, Midland. *Secretary, Mr. D. H. Coleman, Treasurer, Barrie. Mr. S. R. Gendron, Penetanguishene. Mr. Thos. McKnight, Cookstown. Mrs. H. E. Todd, Orillia. Mrs. Lorne Kenney, Collingwood.
STORMONT	Chairman, Mr. Rodolphe Danis, Cornwall. Vice-Chairman, Mrs. John Nephew, R.R. No. 1, Finch. Secretary, Mr. John Boldick, 120 Lawrence Ave., Cornwall. *Mrs. W. M. Earle, Avonmore. Mrs. Simeon Eamon, Osnabruck Centre. *Mr. W. H. Gallinger, Cornwall.
VICTORIA	Chairman, Mr. F. G. Perrin, Oakwood. *Vice-Chairman, Mrs. A. Morrison, Kinmount. Mr. J. W. Lyons, 77 Peel St., Lindsay. Mrs. George Murphy, R.R. No. 4, Lindsay. *Mr. W. C. Moore, Bobcaygeon.
WATERLOO	*Chairman, Mr. A. R. G. Smith, New Hamburg. Secretary, Mrs. Ralph Vance, 357 King St. East, Kitchener. Mrs. J. J. Lowe, Hespeler. *Mr. Sam Rohr, Ayr.

LOCAL BOARDS—*Continued*

(Those marked * are municipal nominees)

COUNTIES—*Continued*

Welland........................Chairman, Mr. F. H. Gallinger, R.R. No. 3, Niagara Falls.
Vice-Chairman, Miss M. J. O'Neil, Port Colborne.
Secretary, Mrs. E. W. Tench, R.R. No. 3, Niagara Falls.
*Mr. George Broadley (Reeve), Bridgeburg.
*Mr. Wilson Kline (Reeve), Ridgeville.

Wellington.................*Chairman, Mr. Herman Graef, Clifford.
Vice-Chairman, Mr. J. A. Cockburn, R.R. No. 1, Puslinch.
Secretary, Mrs. A. G. H. Luxton, Mount Forest.
*Mr. James Beattie, Fergus.

Wentworth..................Secretary, Mrs. Adam Inch, Mount Hamilton.
Mrs. J. E. McDonough, Rockton.
Mr. J. E. Peart, County Clerk, Hamilton.
Mr. John S. Fry, Dundas.
*Warden R. H. Emery, Court House, Hamilton.
*Reeve A. E. Smuck, Court House, Hamilton.

York.........................Chairman, Rev. H. R. Young, Fairbank.
Vice-Chairman, Mrs. I. Graves, Scarborough Junction.
Secretary, Mrs. L. M. Wedd, 364 Beresford Ave., Toronto (Lynd. 2576).
*Mrs. Robert Tier, Islington.
Mrs. W. J. Fuller, Newmarket.
Mrs. A. E. Pugsley, Sutton West.
Mr. G. I. Hambly, Unionville.
Mr. Harry May, 531 Winona Drive, Toronto 10

CITIES

Belleville...................Chairman, Mr. Robt. Tannahil, 147 George St., Manager, Bank of Montreal.
Secretary, Miss Anna M. Hurley, 46 Queen St., Belleville.
*Mr. W. A. Woodley, 56 Catherine St., Belleville.
Mr. Chas. Hanna, Belleville.
*Mrs. Lillian Mikel, 285 Charles St., Belleville.

Brantford...................*Chairman, Judge A. D. Hardy, Brantford.
Secretary, Mr. F. W. Thompson, Willard Hall, Brantford.
Dr. C. C. Fissette, Brantford.
Mrs. Mark Hunks, 289 Nelson St., Brantford.
*Mrs. S. H. J. Reid, 126 Albion St., Brantford.

Chatham.....................*Chairman, Rev. R. J. M. Perkins, Chatham.
Vice-Chairman, Mr. Albert Groombridge, Chatham.
Secretary, Mrs. Jas. P. Dunn, 49 Stanley Avenue., Chatham.
*Mrs. R. V. Bray, Chatham.
Mr. Chas. Austin, Chatham.

Fort William................*Chairman, Mr. J. E. Crawford, 109 Cuthbertson Block.
*Vice-Chairman, Mr. E. C. Smith, 216 Finlayson St.
Secretary, Mrs. Garnet Cronk, 123 St. Mark St., Fort William.
Mrs. Geo. A. Graham, 400 S. Vickers St., Fort William.
Mr. W. P. Bailley, 160 East Amelia St., Fort William.
Mr. J. R. Pattison, 508 North John St., Fort William.
Mrs. John McDonald, 343 North Norah St., Fort William.

Galt..........................Chairman, Mr. Mark Mundy, Galt.
Vice-Chairman, Mrs. Thos. Barrett, Galt.
Secretary, Mrs. Jean A. Lash, Galt.
*Mr. Alexander H. White, 43 Spruce St., Galt.
Mrs. Hugh Wiffler, 47 Lansdowne Rd. North, Galt.
*Mr. Aaron W. Hilborn, 60 Wentworth Ave., Galt.

LOCAL BOARDS—*Continued*

(Those marked * are municipal nominees)

CITIES—*Continued*

Guelph	Vice-Chairman, Mrs. T. Goldie, 250 Queen St., Guelph. Secretary, Mr. C. W. Dawson, 9 Clinton St., Guelph. *Mrs. A. Anderson, 123 Cork St., Guelph. *Ald. H. Quarmby, 21 Paisley St., Guelph. Mr. John Armstrong, 95 Wyndham St., Guelph.
Hamilton	*Chairman, Mr. R. T. Kelley, Hamilton Advertising Agency. Vice-Chairman, Mrs. J. Inman, 20 Holton Ave. North. Secretary, Mr. W. V. Patterson, City Hall, Hamilton. *Mr. Wm. A. Smith, 24 King St. West, Hamilton. Mrs. Wm. Earl, 92 Barnesdale Ave. North, Hamilton. Rev. Jos. W. Englert, 120 Sherman Ave., Hamilton.
Kingston	*Chairman, Mr. Sam S. Corbett, 216 Princess St., Kingston. Secretary, Prof. W. A. MacKintosh, Queens University. Mrs. M. Easson, 52 Colborne St., Kingston. Mrs. Keenan, 265 Barrie St., Kingston. Miss Frances Sullivan, St. Clare Apts., Kingston. *Alderman Bruce Hopkins, Kingston.
Kitchener	Chairman, Mr. Robert Smyth, 103 Queen St. South, Secretary, Mr. A. R. Goudie, 42 King St. East, Kitchener. *Mrs. Chas. K. Massell, 91 Scott St., Kitchener. *Mr. W. J. Motz, Kitchener. Mrs. Mary Kaufman, 35 Roy St., Kitchener.
London	*Chairman, Mr. W. J. Kilpatrick (Mayor), London. *Secretary, Mr. S. Baker, City Clerk, London. Mrs. J. J. Roach, 644 King St., London. Mr. E. R. Dennis, Dundas St., London. Vice-Chairman, Mrs. John Gemmell, 16 Evergreen Ave. Mrs. J. W. Cunliffe, London.
Niagara Falls	Chairman, Mrs. T. E. Ferris, 941 Roberts St., Niagara Falls. *Acting Secretary and Vice-Chairman, Mr. M. C. Goodsir, 509 Victoria Ave., Niagara Falls. Secretary, Rev. Guy B. Gordon, 767 River Road. *Mrs. W. J. McMurray, Niagara Falls. Mrs. A. E. Hallam, 126 Bridge St., Niagara Falls.
Oshawa	Chairman, Mrs. Edith C. Myers, 97 King St. East, Oshawa. *Secretary, Miss Dorothy Farncomb, Municipal Offices. Rev. Father Bench, Oshawa. Mr. Gilchrist, c/o General Motors, Oshawa. *Mrs. Frank Robson, R.M.D., Oshawa.
Ottawa	*Chairman, Mr. Frank LaFortune, 3 Cobourg St., Ottawa. Vice-Chairman, Mrs. Flora McTavish, 314 Frank St. Secretary, Mrs. Annie M. Hasley, 2 Queen St., Ottawa. Mr. F. W. McCrae, 425 Bronson Ave., Ottawa. Mr. Thos. Burns, 2 Queen St., Ottawa. *Mr. T. H. Brewer, Ottawa.
Owen Sound	*Chairman, Mr. R. D. Little, Owen Sound. Vice-Chairman, Mrs. W. E. Dunn, 850 Third Ave. West. Secretary, Mrs. Geo. E. Dunoon, 9th St. East, Owen Sound. Dr. A. E. Little, Eugenia. *Miss Grace M. Lediard (Secretary to Mayor and Council). Rev. A. L. Atton, 1124 4th Ave. West, Owen Sound. Mrs. C. H. Young, 219 10th St. West, Owen Sound.
Peterborough	Chairman, Mr. James Abraham, 189 Rubidge St. Vice-Chairman, Mrs. Jos. Mills, 451 Hunter St. West. *Secretary, Mr. F. H. Dobbin, 295 Reid St., Peterborough. Mr. T. J. McMurray, 185 King St., Peterborough. *Mrs. George Benton, 782 Water St., Peterborough. Mr. M. J. Maher, 372 Rubidge St., Peterborough. Mrs. S. Newall, c/o Chief of Police, Peterborough.

LOCAL BOARDS—*Continued*

(Those marked * are municipal nominees)

CITIES—*Continued*

PORT ARTHUR AND THUNDER BAY	Chairman, Mr. John Kerr, 193 Park St., Port Arthur. Secretary, Miss Lillian Dennis, City Hall, Port Arthur. Mrs. W. A. Milne, Port Arthur. Rev. Wm. Reid, Schreiber (Corresponding Member). *Ald. H. Hogarth, Port Arthur. Mrs. T. S. T. Smellie, 216 Court St. North, Port Arthur. *Mr. James Stirling, Port Arthur.
ST. CATHARINES	Chairman, Mr. L. P. Cunningham, 146 King St. *Mr. D. C. Hetherington, 36 Catherine St., St. Catharines. Mrs. R. English, 36 Louisa St., St. Catharines. Mrs. L. M. Schenck, York St., St. Catharines. *Ald. Walter J. Westwood, St. Catharines.
ST. THOMAS	*Chairman, Mr. Frank Harding, 58 East St., St. Thomas. *Vice-Chairman, Mr. Geo. H. Sloggett, 37 Forest Ave. Secretary, Miss Tessie Ingram, 134 Wellington St. Mrs. Rhea Butler, St. Thomas. Mrs. John Lane, 10 Erie St., St. Thomas.
SARNIA	*Chairman, Mr. John Wilkinson, 506 Christina St. North. Vice-Chairman, Mrs. F. W. Kettermaster, 184 London Rd. Secretary, Mr. H. Steele, 327 Stuart St., Sarnia. Dr. R. G. H. McDonald, 300 Christina St. North, Sarnia. Mrs. George Taylor, Sarnia. *Miss Grace Tuck, 153 Cameron St., Sarnia.
SAULT STE. MARIE	Chairman, Mr. Wm. Birks, 85 Lansdowne Ave. Vice-Chairman, Mr. Charles Ross, 292 Albert St. *Secretary, Mrs. Daisy Hampton, Sault Ste. Marie. *Mr. Herman J. Lortie, Brown St., Sault Ste. Marie. Mrs. M. J. Mahon, Church St., Sault Ste. Marie. Mr. Alexander Fisher, 408 Marin St., Sault Ste. Marie.
STRATFORD	*Chairman, Mrs. Harry Davis, 57 St. David St., Stratford. *Secretary, Mr. J. J. Dalrymple, 99 Perth St., Stratford. Mrs. Thos. Ballantyne, 175 Cambria St., Stratford. Mrs. Geo. McLagan, 210 Water St., Stratford. Mr. W. J. Blakeston, 79 Mowat St., Stratford.
TORONTO	*Chairman, Rev. F. E. Powell, 752 Logan Ave., Toronto. Secretary, Miss Jane Barclay, 157½ King St. E. Mrs. A. Van Koughnet, 141 Beford Rd., Toronto. Mr. W. A. Langton, 247 Rusholme Rd., Toronto. *Mr. Wm. Byers (Brigadier, S.A.)., Albert St., Toronto. Miss Irene Foy (Catholic Welfare Bureau), 67 Bond St.
WELLAND	Chairman, Mr. Harry Jones (Chief of Police), Welland. Vice-Chairman, Mrs. L. B. Duff, Welland. Secretary, Mrs. W. J. Jacobs, 17 Elizabeth St. West, Welland. Mrs. Dr. Howell, Welland. *Mr. Edward Anderson, Welland. *Ald. John Voltz, Welland.
WINDSOR	Chairman, Dr. Remi Casgrain, 141 Pitt St. West, Windsor. *Secretary, Mrs. M. E. Fotheringham, Office of City Clerk. Miss Helen Bartlett, Victoria Ave., Windsor. *Ald. Chas. D. Fraser, 550 Bruce Ave., Windsor. Mr. John A. A. McKeon, 465 Goyeau St., Windsor.
EAST WINDSOR	Chairman, Mr. E. C. Poisson, 315 Sandwich St., East Windsor. *Vice-Chairman, Mrs. M. G. McWilliams, 1081 Arthur Rd. Secretary, Mrs. Lillian M. Fellows, East Windsor. *Mrs. Stella Gelina, Social Worker. Mr. Harry Baby, Drouillard Rd., East Windsor. Dr. A. M. Blakely, 42 Rossin Blvd., East Windsor.

LOCAL BOARDS—*Continued*

(Those marked * are municipal nominees)

CITIES—*Continued.*

WOODSTOCK	Chairman, Mr. M. J. Brophy, Woodstock Business College. *Vice-Chairman, Mrs. E. W. Nesbitt, Woodstock. Secretary, Mr. R. W. Ferguson, 20 Wellington St. North. *Mr. Geo. A. Davidson, 577 Dundas St., Woodstock. Mrs. D. J. McGregor, 408 Admiral St., Woodstock.

SEPARATED TOWNS

BROCKVILLE	*Mrs. Alice J. Comstock, Brockville. Secretary, Mrs. J. S. Copland, Brockville. Mrs. Jos. Fitzpatrick, Pearl St., Brockville. Mr. Henry Walter, 41 William St., Brockville. *Mr. Geo. K. Dewey, Town Clerk, Brockville. Mr. W. F. Chapman, Waterworks Department, Brockville.
GANANOQUE	Chairman, Mr. T. I. Ellis, Gananoque. Secretary, Mrs. J. A. Jackson, Gananoque. Mrs. W. Crowter, Gananoque. *Mr. Wm. Fairman, Gananoque. *Mr. T. D. O'Connor, Gananoque.
INGERSOLL	*Chairman, Mr. F. E. Waterhouse, Ingersoll. *Secretary, Mrs. Wm. Kirwin, Box 253, Ingersoll. Mr. John Lee, Ingersoll. Mr. Thos. Hamill, Ingersoll. Vice-Chairman, Mrs. Charles Scoffin, Ingersoll. Mrs. Dr. W. Lecky, Ingersoll.
PRESCOTT	Vice-Chairman, Mr. W. P. McCarthy, Prescott. *Secretary, Mr. W. J. Ranson, Prescott. Mrs. Wm. Crannie, Prescott. Miss Louisa Jones, Prescott. *Mayor Frank Dubrule, Prescott.
ST. MARY'S	Chairman, Mr. B. F. Lancaster, St. Mary's. Vice-Chairman, Mr. D. L. O'Brien, St. Mary's. Secretary, Mrs. S. J. Dunseith, St. Mary's. *Mrs. William Mills, St. Mary's. *Mr. J. K. Richardson, St. Mary's.
SMITH'S FALLS	*Chairman, Mr. Robert Hawkins, Smith's Falls. Vice-Chairman, Mr. Richard Craig, Smith's Falls. Secretary, Mrs. H. S. Coombs, Smith's Falls. *Mr. Ed. J. Gilmour, Smith's Falls. Mrs. Arthur Jones, Smith's Falls.
TRENTON	*Chairman, Mr. P. J. O'Rourke, Trenton. Secretary, Miss Helena Driscoll, Trenton. *Mr. W. J. Potts, Trenton. Mr. Thos. Jarrett, Trenton. Mr. C. W. Lott, Trenton.
WALKERVILLE	*Chairman, Dr. C. W. Hoare, Devonshire and Wyandotte Sts., Walkerville. Vice-Chairman, Mr. Wm. Grant, 125 Kildare Rd. Secretary, Mr. H. L. Berry, Box 53, Walkerville. *Mrs. J. H. Coburn, 134 Argyle Rd., Walkerville.

LOCAL BOARDS—*Continued*

(Those marked * are municipal nominees)

DISTRICTS

ALGOMA	Chairman, Mr. E. A. White, Bruce Mines. Secretary, Rev. Richard Haines, Blind River. Mr. Henry Knight, Jr. R.R. No. 1, Sault St. Marie. Mr. J. M. Gibbs, Richard's Landing, St. Joseph's Island. Mrs. S. M. McGuire, Thessalon.
DRYDEN	Chairman, Mr. Alfred Pitt, Dryden. Mrs. Dingwall, Dryden. Mrs. M. S. Campbell, Dryden. Mr. H. M. Davidson, Dryden. Rev. H. A. Rivers, Dryden. Rev. R. A. Smith, Dryden.
KENORA	Chairman, Mrs. J. P. Earngey, Kenora. Secretary, Mr. Percy E. Langford, Kenora. Mrs. Thos. Proudlock, Kenora. Mr. H. Cornish, Keewatin. Mr. Alex. B. Johnstone, Keewatin.
MANITOULIN	Chairman, Mr. Fred Smith, Gore Bay. Secretary, Mrs. W. W. Anglin, Mindemoya. Mr. T. J. Jackman, Killarney. Mrs. Howard Smith, Manitowaning. Mrs. P. L. McGilvery, Little Current. Mr. W. F. Edmunds, Silver Water.
MUSKOKA	Chairman, Mr. D. T. Hodgson, Bracebridge. Secretary, Mrs. W. Gebhardt, Box 251, Bracebridge. Rev. Frederick Berner, MacTier. Rev. John B. Lindsell, Gravenhurst. Mrs. J. T. Andrews, Bracebridge. Rev. W. Cairns Conning, Port Carling. Mr. W. J. Smith, Huntsville. Rev. W. T. Swainson, Rosseau (corresponding member).
NORTH BAY AND NIPISSING	Secretary, Mrs. W. Anderson, North Bay. *Mr. A. Jackman, North Bay. Mr. C. A. Fink, Mattawa. Mrs. Wm. White, 205 McIntyre St. East, North Bay. Mr. Gordon R. Brady, 37 Main St. East, North Bay. Mrs. Geo. Rutherford, 200 Worthington St. East, North Bay. *Mr. Ralph Sheppard, North Bay.
PARRY SOUND EAST	Chairman, Mr. Harry Hayward, Scotia Junction. Vice-Chairman, Mr. A. M. Church, J.P., Sundrigde. Secretary, Rev. T. M. Murray, Powassan. Mrs. T. A. Mitchell, South River. Mrs. R. T. Armstrong, Burks Falls.
PARRY SOUND WEST	Chairman, Mr. Frederick Tasker, Parry Sound. Secretary, Mr. Francis A. White, Parry Sound. Mrs. F. L. Walton, Parry Sound. Rev. Father Collins, Parry Sound. Mrs. C. H. Knight, Parry Sound.
RAINY RIVER	Chairman, Mrs. J. W. Walker, Fort Frances. Secretary, Mr. W. J. Clark, Fort Frances. Mr. H. C. Grimshaw, Rainy River. Mrs. W. F. Sullivan, Emo. Mr. Alexander F. Cameron, Stratton.
SIOUX LOOKOUT	Chairman, Dr. W. E. C. Day, Sioux Lookout. Secretary, Mrs. W. Green, Sioux Lookout. Mr. J. A. Hodder, Sioux Lookout. Mrs. Oscar Anderson, Sioux Lookout. Mrs. W. Plunkett, Sioux Lookout. Rev. F. C. Sevier, Sioux Lookout.
STURGEON FALLS	Secretary, Mr. A. A. Aubin, Sturgeon Falls. Mr. Philip Levesque, Sturgeon Falls. Mrs. George Cockburn, Sturgeon Falls. Mr. Alphonse Legendre, J.P., Verner.

LOCAL BOARDS—*Continued*

(Those marked * are municipal nominees)

DISTRICTS—*Continued*

SUDBURY	Chairman, Mr. George S. Buchanan, Sudbury.
	Vice-Chairman, Mrs. J. J. Kehoe, Sudbury.
	Secretary, Mrs. Hugh Grace, Sudbury.
	Mr. Joseph Gill, Sudbury.
	Rev. J. T. Brennan, Espanole.
	Mrs. W. A. McDonnell, Coniston.
	Mr. W. J. Hambly, Coppercliff.
	Mr. A. Brundage, Capreol.
	Mr. Alexander Fournier, 11 Elm St., East, Sudbury.
	Mr. Peter Fenton, Sudbury (Mayor).
	Mrs. Stipchase, 65 Beech St., Sudbury.
TEMISKAMING	Chairman, Mr. John Clark, Englehart.
	Vice-Chairman, Dr. J. A. McInnis, Timmins.
	Secretary, Mr. R. Woods, New Liskeard.
	Major J. E. McCuaig, Haileybury.
	Mr. Richard Carter, Kirkland Lake.
	Mrs. John Hough, Matheson.
	Mrs. A. J. Waters, Cochrane.
	Dr. E. F. Armstrong, Cobalt.
	Mr. Frank K. Ebbitt (Mayor), Iroquois Falls.

INDIAN RESERVES

ALGOMA (Batchewana, Garden River, Thessalon, Mississauga, Spanish River, Serpent River.)	Indian Agent, Gordon H. Sims, 166 East St., Sault Ste. Marie.
	Mrs. (Canon) Johnston, Garden River.
	Indian Agent, Mr. C. F. Rothera, Thessalon.
	Mr. Oscar Cole, J.P., Massey.
BRANTFORD	Superintendent, Lt.-Col. C. E. Morgan, Brantford.
	Rev. J. G. White, R.R. No. 6, Hagersville.
	Mr. Elliott Moses, Oshweken.
	Miss Cora Russell, Hagersville.
	Mr. H. M. Hill, c-o Lt.-Col. Morgan.
	Mr. P. J. Atkins, Six Nations.
	Secretary, Mrs. Wm. Smith, R.R. No. 6, Hagersville.
	Rev. Mr. Ruff, Oshweken.
CAPE CROKER	Indian Agent, Mr. Arthur C. Porte, Cape Croker.
	Vice-Chairman, Mrs. Chas. Gilbert, Wiarton.
	Secretary, Mr. Oliver Johnston, Cape Croker.
	Rev. Father Cadot, Cape Croker.
	Mrs. Peter Waukey, Cape Croker.
	Chief Chas. K. Jones, Cape Croker.
	Mrs. Wm. Akiwenzie, Cape Croker.
	Rev. R. R. Elliott, Cape Croker.
CHIPPAWA HILL (Chippawas of Sugeon.)	Indian Agent, Mr. Donald Robertson, Chippawa Hill.
	Vice-Chairman, Mrs. A. Ritchie, Chippawa Hill.
	Secretary, Mr. Sidney S. Mandowob, Chippawa Hill.
	Mrs. E. Joshua, Chippawa Hill.
	Mr. Joseph Johnston, R.R. No. 2, Allenford.
	Rev. Mr. Weir, Chippawa Hill.
GORE BAY	Indian Agent, Mr. E. T. Priddle, Gore Bay.
	Rev. Eugene Papineau, Little Current.
	Mrs. John Hay, West Bay.
	Mrs. Paul Cada, Sheshagwaning.
	Rev. B. P. Fuller, Sheshagwaning.
HIGHGATE	Indian Agent, Mr. Nelson Stone, Highgate.
	Vice-Chairman, Rev. J. C. Nethercott, Bothwell.
	Secretary, Mrs. Eunice Snake, Bothwell.
	Mr. James Gardiner, Thamesville.
	Mr. Albert Tobias Sr., Bothwell.

LOCAL BOARDS—*Continued*

(Those marked * are municipal nominees)

INDIAN RESERVES—*Continued*

MANITOWANING	Indian Agent, Mr. R. J. Lewis, Manitowaning. Mr. W. Kinoshameg, Wikwemikong. Mrs. Jos. Bwanishing, Wikwemikong. Mrs. Chas. S. King, Wikwemikong. Rev. Edwin Weeks, Little Current Rev. G. A. Artus, Wikwemikong.
MUNCEY (Chippawa, Munceys,) Onedias of Thames.)	Indian Agent, Mr. A. D. Moore, Muncey. Chairman, Rev. Oliver Strapp, Muncey. Secretary, Mrs. Fred Dodson, Muncey. Rev. Mr. Cottam, Muncey. Mr. Albert Smith, Muncey. Mrs. Lillie Powless, Muncey. Rev. Wm. Patterson, Muncey. Mrs. Sophia Fox, Muncey.
STURGEON FALLS (Dolis, French River, Nipissing and Timagami.)	Indian Agent, Mr. Geo. P. Cockburn, Sturgeon Falls. Chief Peter Beaucage, Sturgeon Falls. Mrs. Benjamin Goulais, Sturgeon Falls. Mrs. Peter McLeod, Sturgeon Falls.
WALPOLE ISLAND (Chippawas of Sarnia and Pottawattomies.)	Indian Agent, Mr. Archie Highfield, Wallaceburg, R.R. No. 3. Mr. Nicholas Plain, Sarnia. Mrs. John Solomon, Walpole Island. Mrs. Dan Bressette, Ravenwood.
CHRISTIAN ISLANDS	Chairman, Harold J. Eade, Indian Agent, Christian Islands. Secretary, Rev. R. Cowling, Christian Islands. Rev. Father Kadoo, Christian Islands. Robert Marsden, Postmaster, Christian Islands. Mrs. Wm. Assance, Christian Islands.

JOHN M. MCCULLOUGH,
Secretary-Accountant,
Mothers' Allowances Commission.

REPORT OF THE DEPARTMENT OF PUBLIC RECORDS AND ARCHIVES OF ONTARIO

1930

HON. PETER RUSSELL

Administrator of the Government of Upper Canada
July 20th, 1796, to August 17th, 1799

NINETEENTH REPORT

OF THE

Department of Public Records

AND

Archives of Ontario

BY

ALEXANDER FRASER, LL.D.

1930

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO
SESSIONAL PAPER No. 46, 1931

ONTARIO

TORONTO
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1931

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TO HIS HONOUR THE HONOURABLE WILLIAM D. ROSS, LL.D., ETC.,
Lieutenant Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOUR:

I have the pleasure to present for the consideration of Your Honour the Report of the Department of Public Records and Archives of Ontario for the year 1930.

Respectfully submitted,

E. A. DUNLOP,
Treasurer of Ontario.

Toronto, 1930.

THE HONOURABLE E. A. DUNLOP, ESQUIRE, M.P.P., ETC.,
Treasurer of Ontario.

SIR:

I have the honour to submit to you the following Report in connection with the Department of Public Records and Archives of Ontario.

I have the honour to be, Sir,
Your obedient servant,
ALEXANDER FRASER,
Deputy Minister.

Toronto, 31st December, 1930.

"The world is now aware that historians are to be doubted, that State papers, even Acts of Parliament, may deceive—may be coined for the purpose of deceiving. But family documents, the private letters, the household accounts, the memoranda scratched in the leaf of an old almanac, reach us without suspicion, and carry conviction about things as important to happiness as wars and treaties."

—*Professor Cosmo Innes.*

". . . It is very difficult to compare human lives at different times and in different places. Yet without such comparisons, explicit or implicit, social history can teach us nothing."

—*G. G. Coulton.*

Ex Rebus Antiquis Erudito Oriatur

PREFATORY

The contents of this volume are a continuation of data on the settlement of Upper Canada contained in several previous Reports. Of this invaluable original material, constituting official State documents, there is in the Ontario Archives a considerable quantity which is being gradually prepared for publication and, as conditions permit, will appear.

The Department is under obligation which falls here to be gratefully acknowledged. Early this year two valuable oils were received, each from the brush of Benjamin West, in his day an artist of note. One depicts the death of Wolfe, a scene familiar by copies and engravings of West's original. The other is a striking representation of the naval action off La Hogue in 1692, a victory important to the British cause and an example of characteristic British seamanship. It may be incidentally mentioned that the canvas in each case is expansive, measuring eight feet in length and five feet four inches in height. Both pictures have attracted the attention of many visitors, who are always made welcome in the Department.

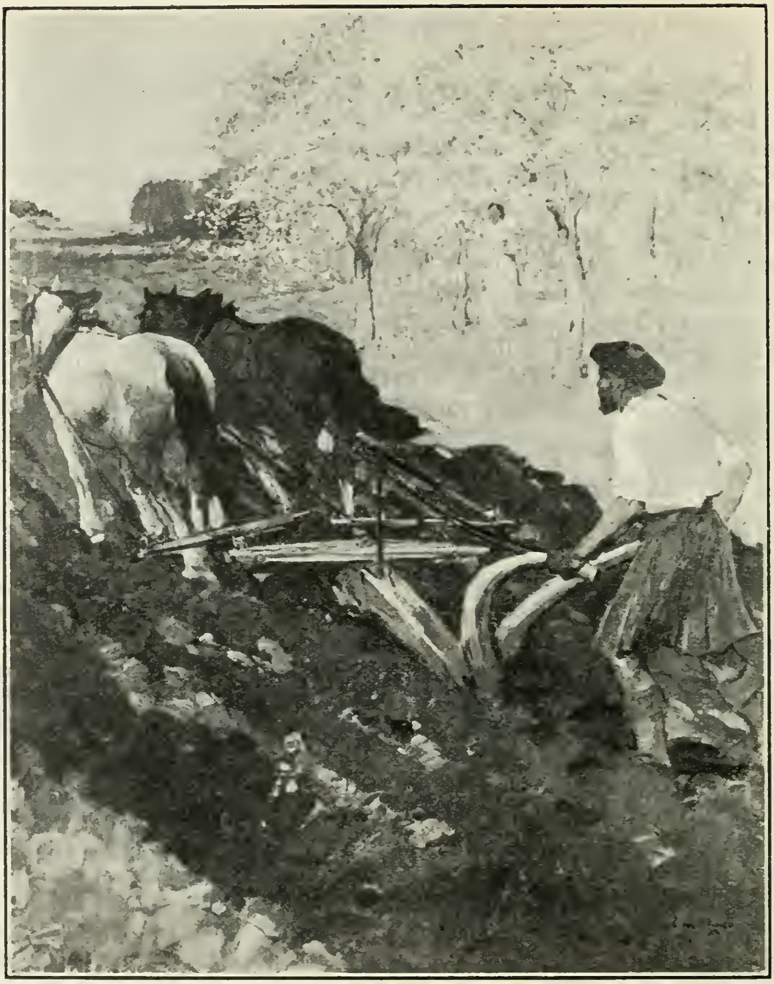
To the friends who so generously enabled the Ontario Archives to possess these pictures of great historical interest, public acknowledgment is hereby most cordially tendered; and the co-operation of Professor Currelly of the Royal Ontario Museum in securing them originally in London, England, merits special mention.

The Department is also under deep obligation to E. W. Beatty, Esquire, LL.D., Chancellor of McGill University and President of the Canadian Pacific Railway, for the donation of a realistic pioneer scene in the county of Glengarry, Ontario, showing a stalwart Highlander doing his daily darg at the plough. The artist is Mr. Cyrus Cuneo.

The pioneers of Ontario were no rude sons of toil but men trained in thought, often in arts and letters, men broadened by adventures in two continents and awakened by the hard experience of two long wars. Many came to us and to the Maritime Provinces in the Highland garb.

As pioneers they had to explore the resources of the vast wilderness of forest, lake and stream, into which they had been cast in the closing days of the eighteenth century. The pioneer had to become a cultivator. He had to reconstruct out of meagre materials, in primitive conditions, the very foundations of life and living itself. In his first year he had to rescue a few acres for tillage from the giant grasp of giant trees; and beat the sword into a ploughshare. Every settler's hut is a monument to him, built out of his brawn, his brain, his blood.

His thoughts must have been long, long thoughts: looking backward, he recalled old, half-forgotten, far-off things and battles not so long ago; looking forward he saw the sunshine, as in this picture, not so far away, across and above his path—the sunshine of prosperity that would reward his struggles and his thrift. He faced primitive conditions in a new land with the temper of Ulysses "to strive, to seek, to find, and not to yield."



A Glengarry Settler, Ontario
Painting by Cyrus Cuneo
Presented by the Canadian Pacific Railway

For five generations the settler's home has been the fountain head for streams of pioneer settlers for our broad domain. In it were bred the pioneers to explore, develop, and settle the vast unknown heritage of our Far West. They were the heralds of new empires on the hither and far side of our Great Lakes—a MacKenzie, who was the first to look out on an uncalm Pacific from Canadian soil; a Fraser, who revealed to us a river rivalling his own St. Lawrence; a Thompson, who traced out for us carefully our boundaries to the south with safety, judgment and satisfying accuracy.

From the river counties of the St. Lawrence to the Bruce Peninsula, Ontario has given her offspring of the sturdy stock of her pioneers rich in their experience, traditions and sentiments, to carry the British spirit and British institutions to the wider areas a former generation from the same source had revealed.

The Honourable Peter Russell, whose picture forms the frontispiece of this volume, was a descendant of the Irish branch of the Bedford Russells and was born at Cork, 11th June, 1733. He had served in the Revolutionary War as one of the secretaries to Sir Henry Clinton, Commander of the Forces in America, "the one man Washington feared." Clinton became Russell's lifelong friend and it was on his recommendation, probably, that Pitt named him (9th September, 1791) Receiver General to serve with Simcoe in organizing the new Province of Upper Canada. He had been nearly two years on duty when his patent of office was issued (13th March, 1794). In the meantime he had become, in Upper Canada, a member of the Executive Council (9th July, 1792) and of the Legislative Council (summoned 16th July, 1792, sworn in 17th September, 1792); and third Justice of the Court of Common Pleas in the Home District (27th June, 1793). In 1794 he received, on 10th August, a commission as Auditor General; and, on the reorganization of the courts, a commission (10th November) as Justice of the new Court of King's Bench.

When Simcoe went to England in July, 1796, Russell, as Senior Councillor, became Administrator of the Government of the Province (20th July, 1796); and continued those duties till the arrival of the Honourable Peter Hunter (17th August, 1799). Indefatigable, industrious, devoted to his duties, he missed but one meeting of the Executive Council during Simcoe's official term. At most of the meetings, the Minutes of which are given in this volume, he was the presiding member.

In 1799 he reverted to the position of Receiver General and his other manifold duties, and died at York, 20th September, 1808.

ALEXANDER FRASER.

UPPER CANADA
LAND BOOK B

19th August, 1796
to
7th April, 1797

GRANTS OF CROWN LANDS, ETC., IN UPPER CANADA

1796–1797

· The following documents are transcripts from the original official Minutes of the Executive Council of the Province of Upper Canada in the years 1796 and 1797.

19th August, 1796.

Council Chamber, at Newark.

Present: Hon. Peter Russell, Administering the Government, and Hon. D. W. Smith.

William Birdseye Peters, Esquire, produced a commission from His Excellency Lieut. Governor Simcoe, appointing him to be Assistant Secretary and Register of the Province of Upper Canada. Mr. Peters having taken the Oaths of Allegiance, Supremacy, Abjuration, and of Office[1] was admitted to the functions of his office.

Peter Russell.

1st October, 1796.

Council Chamber, at Newark.

Present: Hon. Peter Russell, Administering the Government, and the Honourables AEneas Shaw, John McGill, and D. W. Smith, Members of Council.

The report of the Committee on certain papers referred to their consideration by the Administrator being read:

Resolved: That the following establishment, as stated by the Acting Surveyor General, of the Surveying Department appearing to be necessary for the ensuing year shall be confirmed until further orders.

Sketch of the Surveying Establishment of Upper Canada, commencing 1st July, 1796:—

Wm. Chewit, Esq., Senior Surveyor and Principal Draughtsman, Circle of York, 10/ per day and a ration.

Mr. A. Aitkin on the Establishment for Midland District, 10/ per day and a ration.

Mr. A. Jones on the Establishment for Home District, 10/ per day and a ration.

Mr. A. Iredell on the Establishment for Western District, 10/ per day and a ration.

Mr. L. Grant on the Establishment for Eastern District, 10/ per day and a ration.

Mr. Robinson on the Establishment, Surveyor of Woods, 7/6 per day and a ration.

Mr. T. Ridout on the Establishment, Principal Clerk, 4/ per day and a ration.

Mr. W. D. Powell on the Establishment, Assistant Clerk, 5/ per day and a ration.

A Labourer, Messenger, etc., 1/6 per day and a ration.

D. W. Smith, Esq., Acting Surveyor General, 10/ per day and a ration.

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[1] See Ontario Archives, 1929, Appendix III, pp. 180, 181, 182.

Office and Drawing Room, £40 per annum.

Fire and Candles for Drawing Room, quantity supplied.

Stationery, Postage and Incidental expenses, quantity supplied.

Incidental fees.

Extra Surveyors, when employed, not exceeding five at one time, 7/6 per day and a ration.

An Assistant Draughtsman, when necessary, 5/ per day and a ration.

Chainbearers, 2/ per day and a ration.

Axemen, 1/6 per day and a ration.

Resolved: That the Surveyor General be authorised to complete in the course of the fall and winter the following surveys recommended by him, viz.,

Surveyor General's office, 22nd August, 1796.

The Acting Surveyor General submits to His Honour that the following surveys be made this fall and the ensuing winter, to accommodate the very many persons who hold warrants of survey, Orders of Council, etc.:—

In the Eastern District:

To complete so much as remains unsurveyed of the five forfeited townships of Osgoode, Walford, Montague, Russell, and Kitley.

To run two concession lines in the three lower townships on the Ottawa or Grand River.

In the Midland District:

To complete so much as remains unsurveyed of the three forfeited townships of Loughborough, Huntingdon, and Rawdon.

In the Home District:

To survey the forfeited township of Clarke.

In the Western District:

To complete so much as remains unsurveyed of the forfeited township of Windham. Also:

To complete so much as remains unsurveyed of the five Long Point townships.

To run two concession lines on each side of Yonge Street. Also:

A gore of land near Townsend, Western District, for which there are several applications.

The following letter from the Honourable Richard Duncan to the Acting Surveyor General dated Rapid Plot, July 10th, 1796, was read:

Dear Sir,—The business of our townships has given me much concern and what adds to my uneasiness is the apprehension of having unfortunately given some offence to the Governor without having it in my power either of knowing the cause or of saying any thing in my own defence, and conscious at the same time of never having intentionally given any. I once indeed flattered myself from the favorable answer I received in relation to some hints which I took the liberty of offering to the Governor on this subject, that he would have moved the Council to have complied with our wishes, but I was very much disappointed. If upon the whole the Governor thinks he has granted more to us than his Instructions warrant, or may be consistent with the interest of the Province, we would have no objections to relieve him from this embarrassment by relinquishing our claim and accepting of a compensation, which compensation we conceive should be 10,000 acres apiece on certain conditions favorable to the settlement of the townships, for instance, we will engage and bind ourselves in a bond if necessary to cover every 200 acre lot that may be worth cultivating exclusive of the reserves, with an unexceptionable settler in four years from the present time, and for this purpose we would employ a gentleman to go to Scotland this fall in order to bring over 200 families or settlers from that country, a gentleman on whose fidelity, exertion and influence we can reply, and who can bring over 20 families of his own connections.

At the same time we would rather prefer the mode at present practised in Lower Canada, and which from the tenor of our petitions we expected would be the same in Upper Canada, and which is also similar to the mode formerly practised in the Colonies (now States) when under the jurisdiction of Great Britain, with this exception only that instead of returning so many names for a township, it was so many names for a patent. It is alleged that the Governor's Proclamation of 1792 conveys a sufficient idea of the intentions of Government, respecting the terms on which townships are to be granted. It may be so, but I have not penetration enough to see into it, and I know well that the late Wm. Smith who was one of the framers of that Proclamation as well as the most intelligent character in Lower Canada thought that a system more intelligent was necessary to be adopted, but what appears to be very strange in this business is that, upon my interrogating Mr. Watson and others interested in townships respecting the terms, their uniform answer to me was that they were only required to put on 40 families or settlers in four years.

Query: Why should not we have the same indulgence?

Any information you can convey to us on this subject consistent with the duties of your office shall be gratefully acknowledged by, Dear Sir, etc.

(Signed) RICHARD DUNCAN.

David W. Smith, Esquire.

As this letter conveys most indecent insinuations respecting the conduct of His Excellency the Lieutenant Governor and the Council, and as it seems to hold up an opinion that an unequivocal grant of the townships in question has been made to Messrs. Duncan and Fraser, and that they in consequence confer an obligation upon the Lieut. Governor by offering to relinquish the right thereby given to them in those townships, and accepting in compensation 10,000 acres to each of them upon condition that they put an actual settler upon each remaining unreserved lot of 200 acres, it is unanimously resolved that every Order of Council which has appropriated one or more townships for the accommodation of Messrs. Duncan and Fraser and their associates be rescinded, preserving, however, to every person settled upon the townships of Mountain, Winchester and Finch their full right possession upon condition that they take the Oaths of Allegiance and subscribe the Declaration required, and bring a recommendation from Mr. Duncan or Mr. Fraser to the Surveyor's office or those of his deputies with the number of their lot and concession and name of their township to be entered, that an assignment may issue in the usual form, and that the said townships of Mountain, Winchester and Finch shall be thrown open to other applicants from the 1st of June, 1797, agreeable to the Governor's Proclamation of the 25th of last May.

Read the report of a Committee of the Council on a reference from the Administrator, stating that they had agreeable to His Honour's desire called upon the Acting Surveyor General to lay before them the various books that are kept in his office by which it appears that in respect to number and description they are perfectly adequate, and contain clear and satisfactory records of the transactions that have passed in it from its establishment. Amongst them there is also one containing the names of persons to whom land has been assigned, the quantity of such land, and the authority under which the assignment has been made, with a schedule annexed, and another containing the descriptions that have been given, either on the Orders of Council, or on such Land Board certificates as have been sent from the Attorney General's office for that purpose. Resolved in consequence:

That the Board is perfectly satisfied with the mode in which the Acting Surveyor General arranges the business of his office.

Read also a reference from the Administrator stating that having observed that grants had been issued to Captain Duncan for more than 6000 acres without specifying under what claims he obtained them, wherefrom it would appear that more land was granted than the King's Instructions warrant, and recommending that some mode might be adopted to distinguish the grants made to individuals in their own rights from those in right of authorised transfers, Resolved:

That the Attorney General may be instructed to mark on the deeds in future either upon the back or in the body of the deed, any grant issued to individuals as the transferee of others by either expressing in the body of the deed, to such a one—the permitted assignee of—so and so—or inserting on the back of the deed—This deed granted to such a one as the permitted transferee of so and so. But if the Attorney General will be pleased to suggest any more proper mode the Board is ready to adopt it.

Read a letter from the Attorney General to the Administrator, saying that it is necessary the deeds given by the King to persons recommended by the Six Nations should contain a reserve, and a letter from the Surveyor General requesting authority to appropriate a tract for that purpose. Resolved:

That the Acting Surveyor General be instructed to appropriate some tract to the eastward and westward of the Six Nations' land in the rear of the lands reserved for the county of Lincoln to be a reserve for the maintenance of a protestant clergy in respect to the Six Nations' land.

The accounts of William Jarvis, Esq., Secretary and Register of the Province for the half year ending the 30th of last June having been referred by the Administrator to a Committee of the Council,—to be revised on account of two new charges therein, viz., in that of Secretary for engrossing certain public instruments, and in that of Register for an office amounting together to £44:2:10 neither of which charges appears in any former account, and the Committee having examined Mr. Jarvis relative thereto and reported that his only authority for these respective charges is information lately received by him that the charge of engrossing was made by the Secretary of Cape Breton, and admitted; and that he finds it necessary to have an office as Register separate from that of the Secretary to obviate accidents by fire, etc.

Resolved by the Board that Mr. Jarvis' charges for engrossing public instruments do not appear to be sufficiently authenticated; and that two offices as Secretary and Register do not at present appear to be necessary. But as these accounts have passed the audit of the Lieutenant Governor and Council without being objected to, and have been transmitted to the Lords of His Majesty's Treasury, the Board is of opinion the Administrator's warrant should issue for the payment thereof but that the charges specified are not to be allowed in future unless warranted by the command of their Lordships. Adjourned.

PETER RUSSELL.

3rd October, 1796.

Council Chamber, at Newark.

Present: Hon. Peter Russell, Administering the Government, and the Honourables AEneas Shaw, John McGill and D. W. Smith.

Read a memorial of His Majesty's Justices of the Peace for the Home District in Special Sessions assembled at Niagara this 26th day of September, 1796, stating that the memorialists being anxious to accommodate the Ministers of Justice in the respective Courts and to ease the district of the great expense to which it is daily exposed by the present mode of securing and maintaining prisoners had (agreeably to the Act in that case made and provided) directed a court house and gaol to be erected upon a plan which they flattered themselves their ability was equal to; but the assessments having from various causes fallen short of their expectations they find themselves incapable of proceeding without assistance. They therefore pray for a loan of three hundred pounds, Halifax currency, to be replaced out of the district assessments within five years from the present date.

Reference being made to His Majesty's Instructions directing the Lieut. Governor to take care, with the advice and assistance of the Executive Council, that such prisons as may at any time be necessary be erected and that those already created be kept in such condition as effectually to secure the prisoners which now are or may be hereafter confined therein: Ordered that a loan be granted as desired.

Read a letter from the Acting Surveyor General praying leave to employ a draftsman for five or six months. Ordered.

Read Mr. Roe's report to the Secretary and Register of an application made to him to deliver up to the American Recorder the records belonging to the lands on the American side of the Detroit River. Ordered that the Register of the Province be instructed to permit authenticated copies to be taken of all grants and transfers of lands, etc., on the American side of the Detroit River, the parties applying paying for the same.

Read a letter from the Acting Surveyor General desiring to know if he is to set apart any land for Mr. McCall's future recommendations. Ordered that Mr. McCall's recommendations for 200 acre lots shall be good for such lots as may happen to be vacant in the Long Point Settlement for 12 months longer, but the country cannot be any longer locked up for the accommodation of his friends.

Read a letter from the same transmitting an order from General Simcoe to pay Major Holland for a mathematical instrument sent by him for the use of Upper Canada, and desiring His Honour's sanction to enter the price as an item in his account. Ordered that the charge be admitted in the Acting Surveyor General's account, when the amount is known and the receipt of payment vouched.

The Acting Surveyor General having laid before the Board the plan of a reserve proposed for public buildings at York, the same was approved and ordered to be appropriated for those purposes.

Read a letter from the Acting Surveyor General relative to Land Board certificates to Captain Ten Brook for certain lands in East Flamboro' on the north side of Burlington Bay. Ordered that as all the certificates of the late Land Board of Nassau for the Indian lands at the head of the Lake Ontario in East Flamboro' purchased from the Indians since the date of those certificates have been declared by the Council to be insufficient for reasons then assigned on their Minutes,—those certificates are not to be charged against Capt. Ten

Brook as part of his military lands, but whatever quantity appears on the surveyor's books to be still due to him to complete his 3000 acres as a reduced Captain, are to be assigned in some other part, or in East Flamboro' if there are vacancies.

John Dayly's certificates and assignment for lots 22 and 23 in the town of Newark were laid before the Council and ordered to be confirmed for one acre. Adjourned.

PETER RUSSELL.

4th October, 1796.

Council Chamber, at Newark.

Present: Hon. Peter Russell, Administering the Government, and Honourables AEneas Shaw, John McGill and D. W. Smith.

Read the petition of William Willcocks, Esq., stating that in consequence of an Order of His Excellency in Council dated 31st Dec., 1792 appropriating the township of Norwich, now Whitby, for the accommodation of him and his recommendations, loyal subjects, he went to Ireland and had engaged there and in Wales upwards of two hundred families to come to the said township, but they being prevented from risking a voyage across the Atlantic by the French War which immediately intervened, he quitted his business, possessions, and prospects and returned to this country at a very considerable expense to lay his difficulties before His Excellency, and prays indulgence until a peace should happen, when all the families he had engaged would certainly come over; that the township of Whitby having been laid open by Proclamation in May last when the petitioner was at Montreal, he is deprived of the means of accommodating any of those families when they come over, and may be in consequence exposed to their actions at common law for failure of his engagements. Petitioner in consequence prays for relief in the premises. The Board, having taken the said petition into their consideration and having a faith in Mr. Willcocks' assurances that he will bring a number of loyal settlers into this Province, do order that the remaining unreserved and unlocated lots in the township of Whitby be kept open for Mr. Willcocks' recommendations for two years longer from the present date, and that the Surveyor General be authorised to receive the same accordingly, as far as 200 acres to each settler. Whenever Mr. Willcocks may wish to recommend for a larger quantity of land, application on his part must be made by petition to the Council.

On application from the Acting Surveyor General, it was ordered that when townships or other large portions of land have been appropriated to the recommendations of one or more individuals it is meant that the Surveyor General shall receive their recommendations for one farm lot to each settler recommended without being under the necessity of referring to other authorities. Should a larger quantity be asked for, application to be made to the Governor in Council.

Wm. Jarvis, Esq. Upon a motion made by the Administrator to extend His Majesty's bounty in lands to Mrs. Jarvis, the daughter of the Rev. Mr. Peters, a respectable and suffering loyalist, and her four children, ordered that 1200 acres of land be granted to Mrs. Hannah Jarvis, and 400 acres each to Maria Lavinia Jarvis, Augusta Holorina Jarvis, Wm. Monson Jarvis, and Samuel Peters Jarvis, her children.

Read a letter from Lieut. Gainfort to the Administrator requesting the King's grant for 2000 acres as a reduced officer in the 60th Regt., which was ordered to him in Council 11th July, 1793; and reference being had to the Secretary of the Province, a deed for that number of acres to Lieut. Gainfort dated 6th June, 1796, was laid before the Board, which appearing to be incomplete for want of His Excellency's signature, it is ordered that this deed shall be cancelled and another issued for 2000 acres to Lieut. Gainfort.

Read the petition of the Hon. D. W. Smith, in the name of his mother, Anne Smith, stating that she is the widow of the late Lieut.-Colonel Smith who served His Majesty 40 years, including 15 years' service in America, and praying for a donation of land from His Majesty's bounty. (See below.)

Read the petition of the Hon. John McGill for Mrs. Catherine McGill, praying for a donation of land. Ordered a grant of 1200 acres.

Read the petition of the Hon. D. W. Smith, Esq., stating that His Excellency the Lieut. Governor having conceived it for the interest of His Majesty and the Province to provide for the children of the Hon. Alexander Grant and the Hon. AEneas Shaw by granting severally to them 1200 acres of the waste lands of the Crown, and prays His Honour to provide for his children by extending to them His Majesty's bounty in like manner, in an individual grant of 1200 acres to each of them.

Granted 1200 acres to each of Mr. Smith's three children, viz., Mary Elizabeth Smith, David William Smith, and Sarah Smith. Granted also on the motion of the Administrator to Mrs. Anne Smith, wife of the Hon. D. W. Smith, 1200 acres.

Read the petition of John Small, Esq., praying for a donation of land to Mrs. Eliza Small and his two children. Granted to Mrs. Eliza Small, 1200 acres; to John Robert Small, 400 acres; to Joseph Atwell Small, 400 acres.

Read a letter from Robert McDougall, a reduced Lieut. in the Eighth or King's Regt. of Foot, to His Honour the Administrator, praying for land as a reduced subaltern. Ordered that should the petitioner come to reside in this Province he shall receive the King's bounty in lands in the same proportion as to officers of his rank.

Return of persons who have been permitted by His Honour the Administrator to occupy lands during the recess of the Council having been laid before the Council, viz.,

July 26th, 1796, Ensign Elijah Vincent, a reduced officer, 2000 acres.

August 6th, James Flemming, 200 acres, and Joseph Haslip, 200 acres.

August 10th, John Dennis, 200 acres.

Removing a reserve No. 11 at York to another lot, and 20 acres near Mr. St. John's old house at the Humber, to be leased to him on his petition to Council.

August 22nd, Alexander Markle, lot 102 town of Newark.

August 23rd, John Leslie, 200 acres.

August 25th, Michael Shaw, Butler's Rangers, a location of 300 acres.

August 27th, Daniel Malcom, a farm lot.

Sept. 1st, farm lots to: John Hollaway, William McCartney, Nicholas Outhouse, Otheriel Smith, John Smith, Joseph Smith, Abraham Voght, John Misener, Jacob Misener, Nathaniel White, Jacob Buganer, John Stinehoff, James Blayney.

Which, being confirmed, were ordered accordingly.

Adjourned.

PETER RUSSELL.

6th October, 1796.

Council Chamber, at Newark.

Present: Hon. Peter Russell, Administering the Government; Honourables AEneas Shaw, John McGill and D. W. Smith.

Several petitions for land being read, warrants of survey were ordered:—

To Mr. R. Murray for 600 acres.

To the Hon. Peter Russell, to cover the ground (he prayed for in a former petition) adjoining to his improvements in the township of Newark, 10 acres.

To Lieut. R. Pilkington of the Royal Engineers (in addition to 1200 acres ordered him on a former petition) to put him on the same footing with other officers of his rank, to which he is fully entitled by his civil and military services to this Province, 800 acres.

Read a petition from Miss Eliza Russell praying that an unsigned deed prepared for the land ordered to her in the township of Whitby may be cancelled and another issued to include the broken fronts which she had before prayed for. Leave granted and the deed cancelled before the Board, and another ordered conformable to the prayer of the petition.

Garret Slingerland. The Surveyor General is desired to cause notice to be given to Tunis Slingerland upon whose resignation the lot prayed for may be given to the petitioner as part of his military land.

Adjourned.

PETER RUSSELL.

7th October, 1796.

Council Chamber, at Newark.

Present: Hon. Peter Russell, Administering the Government; Honourables AEneas Shaw, John McGill and D. W. Smith.

Several petitions for land being read, warrants of survey were ordered:

To James Crooks and to William Crooks, the lands granted before to be made up 600 acres each.

To Captain Roorbach, a reduced Captain, on condition of his settling in this Province, 3000 acres; no deed to issue until then but to be reserved for him for two years; family lands deferred till they come into the Province.

To Stephen Emmett, in addition to former grants, 200 acres.

Thomas Clerk, in consideration of the petitioner's not being permitted to occupy the lots 20 and 21 in the first township on the north side the River Thames. Ordered that he receive two farm lots (in addition in lieu) and referred to the Deputy Surveyor of the District for location.

To David Bastida for himself, 400 acres, and in right of his wife, the daughter of a loyalist—Peter McMicking—200 acres.

To Thomas Willson, in addition to former grants, 200 acres.

To Joseph House, in addition to former grants, 200 acres.

Read a petition from Mrs. Christiana Tice, widow of the late Captain Gilbert Tice of the Indian Department, stating that her husband had received only 1100 acres, and praying that the remaining 1900 acres may be granted to her. Ordered that the lands granted to the late Captain Tice as a reduced Captain be made up 3000 acres, and referred to the Surveyor General.

Ordered that the Secretary shall be instructed not to stop the delivery of any deed in future after it has passed the Great Seal of the Province and the Register's and Auditor's offices, unless he shall be directed to do so by an order under the signature of the Lieut. Governor or person administering the Government, as the evils and inconveniences attending the hearing of caveats after this stage of the business are innumerable. But in order that means of redress may be open to all claimants who may judge themselves injured by the granting specific lands to other applicants, it is hereby ordered: That a list shall issue from the Attorney General's office on the first of every month of the Land Board certificates or Orders of Council lying in his office, for his fiats specifying the names of the persons, townships and districts and, unless caveats shall be lodged in the Secretary's office, for those in the Home District within one month and those in the Midland and in the Eastern and Western Districts within four months of the date of such notice. The deeds are then to issue from the Secretary's office in course; and the Secretary is to be instructed to give notice to the Attorney General of all caveats lodged in his office immediately after his receiving them. And the Clerk of the Council is likewise directed to give notice to the public that all disputed claims will be heard by the Governor and Council during the sitting of the Legislature in every year. And as much trouble is occasioned to the offices by receiving and hearing caveats, the following fees are allowed to be taken.

Ten shillings and six pence currency by the Clerk of the Council upon the determination of the Council on every caveat. By the Secretary: For receiving and filing each caveat, 1/6 currency; Reporting to the Attorney General, 1/6 currency; Receiving and filing Decrees of Council, 1/6 currency.

Adjourned.

PETER RUSSELL.

8th October, 1796.

Council Chamber, at Newark.

Present: Hon. Peter Russell, Administering the Government; Honourables AEneas Shaw, John McGill and D. W. Smith.

Read a petition from Wm. Jarvis, Secretary and Register of the Province, representing that his fees as Register for grants under 500 acres being only 2/6 from those who pay fees, and 1/3 from Government for those who are exempted, are too small for the labour attending that duty, being not even equal to what he is obliged to pay those clerks he employs in copying them, and praying leave to charge 1/ for every 100 words therein.

Upon reference to His Grace the Duke of Portland's Instructions on the subject of fees by which the Council find themselves restricted to the ratio of the Nova Scotia Table with respect to the quantum, and observing that the Table of Fees and their distribution established by the Order of Council dated the 9th of July are perfectly conformable to the Nova Scotia Table, the Board is of opinion they are not at liberty to make any addition to the Register's fees, but being sensible that the half fee of 1/3 upon registering grants of 500 acres and under is by no means equal to the expense of employing clerks for doing that duty, expecially since the specification of the Clergy Reserve has been added subsequent to the Nova Sotia Table, the Board recommend that Mr. Jarvis' memorial may be transmitted to the Secretary of State for His Grace's further consideration; and in the mean time order that the Register be allowed to charge in his contingent account £40 currency for a clerk to do that extra duty.

Upon a motion of the Hon. D. W. Smith, Acting Surveyor General, that the Secretary should be furnished with some means of distinguishing the deeds which originate from petitions lodged in the Council office before the first of July last from those lodged subsequent thereto, else he will not know who are to be charged the expense of survey and who not, ordered that the Clerk of the Council take care to endorse upon the back of every petition the date of its being received into his office, numbering these petitions in regular succession according thereto; and that he immediately transmit to the Secretary's office a list of the names of those persons to whom lands have been granted in consequence of petitions lodged in the Council office subsequent to the first of last July; and that he shall continue to send the like lists to the Secretary's office at the end of every month stating the names of those to whom lands have been granted under Orders of Council since the last report.

Ebenezer Collver appeared personally before the Board and voluntarily surrendered to the King lot 8 in the 7th concession of the township No. 4 now Louth, where the salt springs are. Ordered that Ebenezer Collver in consideration of his having voluntarily relinquished to Government the lot that the salt spring is on shall have a grant of four hundred acres free of any expense whatever, and that Mr. Angus McDonell shall have a grant of 1200 acres in lieu of 600 acres adjoining the salt spring free of any expense of survey.

Read the petition of Wm. Hands of Detroit, merchant, stating that he had evinced his attachment to His Majesty's Government steadily, therefore prays that 1200 acres may be granted him. Ordered that former grants may be made up 1200 acres.

Read the petition of John Small, Clerk of the Council. The Board having taken the same into consideration judge it reasonable that the Clerk of the Council shall be allowed the following incidental fees to enable him to do the duties of his office:

For receiving and filing all petitions	0/6
Reading the same before the Council	2/6
Entering the order thereon and joining a copy of the minutes or warrant	2/6
	5/6

The Acting Surveyor General's report on certain disputed claims in Stamford being called for and read, the following certificate was signed by John Mucklehone in the presence of James Neville, John Johnson, Joseph Lutes, Solomon Hyate and Margarate Clew, all of whom attended, being parties concerned:

"I certify that I have no claim to lot 63 in the township of Stamford."

his
JOHN X MUCKLEHONE.
mark

The Board having taken into consideration the Acting Surveyor General's report of the 27th Sept., 1796, and heard the parties concerned, confirm John Johnson in lots 63 and 53; and lots 46, 34, 27 and 14 in Stamford to John Lutes and his permitted assigns.

Read the petition of Capt. James Fulton, and Thomas C. Drew for selves and associates, stating that they waited to know the terms on which townships were granted, and praying to be reinstated in the townships of Rawdon and Huntingdon which had been granted to them, and were declared open by Proclamation in May last. Ordered that the petitioners be informed in answer that the Board does not judge it expedient to re-appropriate the townships prayed for, but that in consideration of the matters stated in their petition Messrs. T. Drew, Edward Campbell, John Norton, and Samuel and Joseph Willard may receive 1200 acres each upon their becoming residents in this Province and applying for the same, which is the largest quantity of land they could have received on any consideration; and if any persons have been settled previous to this date in the townships of Rawdon and Huntingdon under their sanction they shall be confirmed on their complying with the mode pointed out by notice from the Surveyor General's office at sundry times, and more particularly in September last. And that His Excellency Lieut. Governor Simcoe's

Proclamation dated the 7th of February, 1792, sufficiently explains the terms on which lands are granted in Upper Canada.

The reports of Committee of Council held at York from the 5th to the 21st of July being laid before the Board and read, the Board approved and confirmed the recommendations as follows:

PETER RUSSELL, *President.*

Petitions read on the 5th July:

1. Philip Bender. Recommended for his family lands when he produces the required certificate.

2. Peter Bradt. Never having received lands, prays for lot 13 in the 6th concession of the township of Louth, on which Philip Fry's name is entered, who has long since left the Province; and lot 6 in the 2nd concession of the township of Pelham. Referred to the Surveyor General to report.

3. Mary Bradt, alias Brink. Recommended for land as the daughter of a loyalist on her producing the required certificate.

4. Cornelius Brink. Recommended for 200 acres, but not at Long Point.

5. Peter Buchner. Recommended for 200 acres if he has never yet received any, and his wife's land, upon his lodging the required certificate.

6. Jeremiah Bettis. (Referred to His Excellency.) Ordered 400 acres, as desired, in Murray.

7. Daniel Buchner. Recommended for 200 acres.

8. John Bowen. Recommended for 200 acres.

9. Lieut. Colonel Andrew Bradt. Recommended for family lands if entitled to them.

10. Joseph Borrely. Recommended for 600 acres on the recommendation of the Hon. J. Baby, provided he actually settles in the Province, but cannot have his lands in Malden, as there will be no vacancy there when the Indian officers, etc., are accommodated.

11. Captain William Caldwell. Recommended that the lands petitioner has already received may be made up the quantity he is entitled to as a reduced Captain. The Committee do not think themselves warranted to go into the appropriation of particular lots in Malden for, referring to a former Order of Council, there appears to be something expected from Messrs. McKee, Elliott and Caldwell as to the subdivision of that township The plains alluded to are reserved and have been petitioned for by the widow McKillup.

12. George Casner. Recommended for 400 acres for himself and 200 acres to each of his four grown up sons provided they come in and settle in this Province.

13. John Davis. Praying to be confirmed in lots 1 and 2 in the township of Windham having purchased the improvements and possession from Jonas Carle. The petitioner having had specific lots assigned him amounting to 400 acres, and it appearing that the lots prayed for have come into his possession by very improper means, the Committee cannot recommend the granting the prayer of the petition.

14. Nathan Field. Recommended for 100 acres for himself and 200 acres in right of his wife.

15. Gilbert Field. Answered in the petition of Eleanor Morden, alias Field.

16. Gabriel Godfrey, Junior, and John Bapt. Godfrey. Recommended at the instance of the Hon. J. Baby for 200 acres each.

17. Gabriel Godfrey, merchant of Detroit. Recommended at the instance of the Hon. J. Baby for 600 acres.

18. Benjamin and Samuel Wm. Marsh. Recommended for 400 acres each in the township of Hope.

19. Eleanor McKillup, widow. The Committee considering the peculiar circumstances of the petitioner recommend her for 1200 acres including as much of her improvements as does not interfere with any intended appropriation of the reserve in question.

20. Finlay Malcom. Praying for the appropriation of a tract between Patterson's Creek and Young's Creek in the Settlement of Long Point to accommodate 50 families, associates of Gidion Vernon, who have been prevented by unforeseen events from coming sooner into this Province. The Committee cannot recommend the prayer of this petition but, there being a sufficiency of lands in that neighbourhood, the families mentioned may be accommodated when they come in.

21. Captain John McGill. Praying to relinquish the 1000 acres granted to him in West Flamboro' in exchange for lots 1, 13 and 14 in the 2nd concession and lots 16 and 23 in the 3rd concession of the said township or for any lots in any other good situation which may be judged expedient. Recommended to grant the prayer of this petition for the township of Clarke.

22. John McGill, Esq. Praying for half a front block in the town of York. Recommended to grant the prayer of this petition.

23. Serjeant James Perigo. Recommended for 500 acres and a back town lot.

24. David Palmer Utter. Recommended for 200 acres.

25. David Palmer Utter. Praying to be confirmed in the escheated land of the late Simon Ray having been at considerable expense in burying him and undertaken to pay the debts of the deceased. Recommended to grant the prayer of the petition, the land prayed for having been escheated from Simon Ray to the Crown.

26. David B. Morgan. Recommended for a back town lot and 200 acres.

27. Captain John McGill. Praying that the lands due to him to complete his 3000 acres as a reduced Captain be assigned to him in lot 7 in the first concession, and lots 33 in the 2nd and 3rd concessions of the township of York; and the remaining 1159 acres in any of the forfeited townships from York to Murray. Recommended to grant the prayer of this petition.

28. John McGill, a reduced Qr. Master of the late Queen's Rangers. Praying that the 800 acres due to complete his military lands be granted to him in the township of York, and that lot 25 in the 2nd concession on the line between the Rivers Don and Humber be confirmed to him in part. Recommended to grant the prayer of this petition by confirming the petitioner in lot 25 which he now occupies and assigning 600 acres more where vacant.

29. Timothy Skinner. Recommended to grant the prayer of the petition.

30. Anthony Westbrook. Recommended for 300 acres as a soldier and family lands if entitled to them.

31. Jacob Winter. Recommended for a town lot.

32. Jacob Winter. Recommended to grant the prayer of this petition.

33. John Williams. Recommended at the instance of the Hon. J. Baby and Colonel England for 600 acres.

The petitions, and recommendations of Council on them, from 1 to 33 being incorrectly entered I have affixed my confirmation to the petitions to prevent mistakes.

PETER RUSSELL, P.

Petitions read on the 6th July:

34. Jonathan Ashbridge. Recommended for 100 acres in addition.

35. John Ashbridge. Stating that he has received 200 acres and praying for 200 in addition. Cannot be recommended yet.

36. Alexander Aitken. Extract of his letter to the Acting Surveyor General, dated township of Murray, 15th May, 1796: "As many applications have been made for lands in this township, I think the most impartial plan would be to appoint a day for the several applicants to convene and draw for their lots, as it will be impossible otherwise to avoid giving dissatisfaction to some of them. If this method does not meet with your approbation, you will be good enough when you transmit orders for granting lands to point out some other mode." (Signed) Alexander Aitken, Deputy Surveyor. Recommended to direct the Surveyor General to give the necessary orders.

37. J. Porlier Benac. Recommended for 600 acres on condition that he actually resides with his family on the British side of the line.

38. Gloryeaner Bryan. Stating that she is wife to the Rev. John Bryan, that she is left to support a large family of children by her industry, and that she has no reason to expect that her husband will ever return to his family; that he had received a certificate for seven hundred acres of land in the township of Elizabethtown, and praying that the deed may be made to her and her heirs. Inadmissible.

39. Catherine Clement. 2000 acres having been recommended to be granted to the heirs of the late Lieut. Lewis Clement, it is presumed the prayer of this petition is answered.

40. Alexander Clark. If the petitioner has not received the family lands he may be entitled to, he may receive them on producing the required certificates. Petitioner's brother will receive lands on his application in person.

41. Jos. Clement, J. P. Clement and James Clement, sons and heirs of the late Lieut. Lewis Clement. Recommended that 2000 acres be granted to the heirs of the late Lieut. Lewis Clement in right of their father.

42. John Cartwright. Stating that he had settled and improved on lot 17 in Long Point, prays to be confirmed in the same and for a further grant in the rear concession of the same to accommodate his family. The petitioner having received the lot prayed for, this is settled.

43. John Chrysler. Recommended for 200 acres for himself to make up his military lands, and that Lieut. Adam Chrysler's lands may be made up 2000 acres to his heirs.

44. Daniel Cassida. Stating that he served in Butler's Rangers during the late war, praying for a grant of land in the vicinity of Long Point in addition to the 300 acres bestowed to disbanded soldiers by His Majesty. Not recommended.

45. Daniel Cassida. Stating that petitioner's deceased wife was a native of Ireland, and praying for a grant of land in her right. Not recommended.

46. Samuel Cassida. Stating that petitioner's father served in Butler's Rangers, that petitioner came into this Province from Ireland in the year 1785, that he has received Land Board certificates for 200 acres, and praying for an additional quantity in the vicinity of Long Point in right of his wife and children. Not recommended.

47. Sarah Cranford. The petitioner's sons will have lands when they are of a proper age to ask for them.

48. Capt. Covill, in behalf of Daniel Cotton, Henry Redicar, and their families. When the petitioner's friends come into this Province to reside, they will receive lands on their personal application.

49. Marguerite Chaboyez. The Committee not having information respecting the foundation of the petitioner's request, they can give no answer to her petition.

50. Thomas Cummings. Recommended for 400 acres in addition including a lot on Yonge Street.

51. Robert Cook. Recommended for 200 acres in addition.

52. W. J. Chew. Recommended to grant the prayer of the petition and referred to the Surveyor General.

53. William Carver. Recommended to be granted.

54. John Collins. Recommended to be granted, if he has had none before.

55. William Dell. Recommended for family lands on producing the requisite certificate.

56. William Dickson of Newark, merchant. Recommended that the lands granted to the petitioner be made up 1200 acres.

57. The Officers of the Garrison of Detroit. The petitioners recommended for town lots in any town in the vicinity which they choose to reside in.

58. Egedeon Day. Praying to take his lands in Beverley township. Answered within.

59. Peter De Jardins. Recommended for 200 acres if none has been yet granted him.

60. John Dodemead. Stating that lot 14 in front of the first township north side of River la Tranche has been granted to him, that the lot next in his rear being vacant, prays that the said lot may be granted to him for the use of his wife and three daughters. This petition cannot be answered before Sally Ainse's claims are determined.

61. John Dodemead. Stating his having obtained from the Land Board for the Western District a grant of lot 14 in front of the first township north side of River la Tranche, and praying for a deed or patent for the same. This petition must lie over until the claims of Sally Ainse are determined.

62. John Dunn. Stating that he has received an unanimous call to undertake the pastoral charge of the Presbyterian congregation in the township of Stamford, and praying for a part of the reserved lands adjoining the Presbyterian church to build a parsonage. The petitioner has received 1200 acres.

63. John David, Junior. Recommended for 200 acres if he has received none.

64. William Dickson, farmer. Recommended for 100 acres in addition if not granted before.

65. John Durham. Recommended for 200 acres in addition.

66. John Darby. Recommended for 200 acres in addition.

67. Cornelius Dugan. Recommended for 300 acres if he has received no land before.

68. Colonel England. Stating that he has been thirty years an officer and that he served the whole of the last war in America, that he has since served seven years in the Provinces of Lower and Upper Canada, four of which he has been in the command of the military posts in the Western District of this Province, and that during that period he has essentially contributed to locate the new settlements in the said Western District, and praying for 1200 acres for each of his three children, or such quantity as may seem meet. The Committee are sorry they are not warranted by precedent to recommend the prayer of this petition.

69. Evan Evans. Recommended for 100 acres in addition.

70. William Eadus. Recommended for 200 acres if he has received none before, and the usual quantity in right of his wife on producing the required certificate.

71. John Ferrier. Recommended for a water lot, place to be left to the Deputy Surveyor as well as the practicability of his being accommodated in one of the townships in the rear of Kingston.

72. James Fisher. Recommended for 200 acres if none has been granted before.

73. Archibald Flack. Recommended for 100 acres in addition and family lands if entitled to them on producing the required certificate.

74. John Feather. Recommended for 200 acres if none has been granted before.

75. Lieut. Faulkiner, 5th Regt. Stating that he has been a subaltern in the said regiment for thirteen years, and being on the eve of dissolution prays that provision may be made for his wife and five children by a grant of land, not being able to provide for them. The petitioner being dead, the family is recommended to His Excellency's consideration.

76. Daniel Fisher. Recommended for 200 acres when he quits the sea.

77. John Fowler. Recommended for 400 acres.

78. William Garner. Recommended for 300 acres if he has received none before.

79. Richard Griffin. Recommended for 200 acres in addition.

80. Calvin Gould, in behalf of himself and a number of inhabitants of the county of Grenville in the Commonwealth of Massachusetts. Praying for a tract of land in Upper Canada. Inadmissible.

81. Aaron Goodall. Recommended for 200 acres if none has been granted.

82. John Gamble. Praying for lot 12 first concession on the east side of the River Don, with its broken front. The lot required being under a prior grant the prayer of petition cannot be complied with.

83. Hon. Alexander Grant. The Surveyor General will of course accommodate the petitioner by assigning part of the lands granted him in the part he requests, if practicable.

84. John Gould. Recommended for 100 acres in addition, and family lands if entitled to them.

85. Robert Gray, Esquire, Solicitor General. Recommended for 1200 acres.

86. Benjamin Gilmore. Recommended for 100 acres in addition to make up 200 acres unless it appears he has already received that quantity.

87. William Harffy, Surgeon. Recommended that the land granted to petitioner may be made up 2000 acres.

88. John Hill. Recommended for 200 acres of land provided none has been granted before.

89. Miles Hitchcock. Stating that he has received 600 acres of land, and praying for an additional quantity. Not recommended.

90. John Hitchcock. Stating that he is married and has a family, that he has received 200 acres of land, and prays for an addition. Not recommended.

91. Henry Huff. Praying for 500 acres of land. Recommended to grant the prayer of petition.

92. John Hill. Praying for a lot in the town of Newark. Recommended.

93. Alexander Harrow. Praying for a lot of unlocated land of about nine or ten acres in front, on and near the mouth of the River Detroit, adjoining on the north the south boundary of the reserve for the Wyandote Indians, and on

the south by the farm or lots occupied by Edward Hazell, equal to four hundred acres. The reserves cannot be granted.

94. Mr. Heslop. Praying to be confirmed in a lot in Kingston. The reserves may be leased, not granted.

95. Gilbert Hix. Recommended for 200 acres when discharged.

96. Jonah Howey. Recommended to make up his grant 200 acres and family lands if entitled to them.

97. James Haywood. Recommended for 200 acres when discharged.

98. James Hopkins. Recommended for 200 acres if he has received none before.

99. Benjamin Hersha and his sons. Recommended to grant to the petitioner and his three sons 200 acres each on their producing certificates of their having taken the oaths and subscribed the declaration.

100. Henry Hay, and others. Recommended to direct the Surveyor General to accommodate the petitioners with small lots in the part prayed for if practicable, and to assign the remainder of their lands where he can find vacancies.

101. Thomas Herns. Recommended for 200 acres if none has been granted before.

102. Joseph Hunt. Recommended to be accommodated with the quantity of land he is entitled to at Toby Cock.

103. Andrew Hansell. Recommended for 200 acres if he has received none.

104. William Hodgkinson. Recommended for the 100 acres in addition on producing his discharge unless he has already received them.

105. Esther [Mahitable] Hopkins. Recommended for 200 acres if she has received none before.

106. William Jarvis, Esquire. The Committee cannot recommend the petitioner for the lots prayed for on Yonge Street as two other lots have been already assigned him and it has been a rule adopted by the Council not to grant more than one lot to the same person on that street. The family lands asked for cannot be recommended as no precedent appears to warrant it, except what has been granted to the children of Executive Counsellors in consideration of the rank they hold in the Province, upon the particular motion and recommendation of His Excellency himself.

107. William Monforton. Recommended for 600 acres if none has been granted before.

108. Timothy Murphy. Recommended that Mr. McMichael's grant may be suspended until the Surveyor General makes a report on the premises.

109. Angus McDonell. Recommended to grant the prayer of the petition anywhere in the county of York except on Yonge Street or in the township of York.

110. Angus McDonell. Recommended that the petitioner be confirmed in lot 7 second concession east side the Don, upon condition of improving the same within one year.

111. Mary de Metrail. Stating that she is the widow of the late Lieut. Lewis de Metrail of the 60th Regt., and praying for the proportion of land he was entitled to. Settled by a former Order of Council, the specification being then not given in.

112. Christian McDonell. Certificate and discharge wanted.

113. Mrs. Deborah Muirhead. Recommended for 1200 acres.

114. William Birdseye Peters. Stating that he is the son of the Rev. Doctor Samuel Peters, a suffering loyalist, and praying for such quantity of land as he may be entitled to. Already decided on.

115. William Read. Recommended for 800 acres in addition, in compliance with the recommendation of the Land Board.

116. William Reid. Recommended for 300 acres in addition.

117. George Reid. Recommended that the remainder of his military lands may be made up to him, and such family lands as he may appear to be entitled to on producing the required certificate.

118. Mary Ridout. Stating that she is the daughter of a U.E. Loyalist, and praying for 200 acres in the county of York. Recommended to grant the prayer of the petition.

119. Elizabeth P. Sheehan. Recommended for 1200 acres.

120. Peter Smith. Recommended to grant 1200 acres to the petitioner but Cramahé being appropriated to Keeler and associates and Murray for single farm lots to actual settlers, Mr. Smith cannot be accommodated where he wishes unless His Excellency may be pleased to direct otherwise.

121. John Sparkman, barrack master, Detroit. Recommended that the lands granted to the petitioner may be made up 1200 acres.

122. Albert and Benjamin French. Recommended for 600 acres each.

123. Jeremiah French. Stating that he commanded a company under Lieut.-Colonel Peters during General Burgoyne's campaign, that he has received two thousand acres of land, and praying for an additional thousand. Referred to His Excellency's pleasure.

124. Mrs. Tice. Recommended for 600 acres.

125. John Trenor. Recommended for 300 acres as a soldier and 200 acres in right of his wife, the daughter of a loyalist.

126. Jonathan Wilcott. Recommended for 200 acres.

Petitions read on the 7th July:

1. Lieut. Col. Butler. Stating that he has three slaves who were in His Majesty's service during the late war and praying for the usual quantity of land allowed to soldiers in their right. Inadmissible.

2. Thomas and Andrew Butler. Stating that they are heirs-at-law to the late Captain Walter Butler who was killed in His Majesty's service, and praying for three thousand acres of land. The Committee cannot recommend the prayer of this petition, as the heirs of the officers killed at Bunker's Hill are equally entitled.

3. Elisha Baker, Junior. Stating that the township of Percy does not contain the number of acres allowed to a township, and praying for a gore of land in the rear of the township of Murray but, if granted before, part of a township granted to Joseph Keelor. Not recommended.

4. Nathan B. Barnum. To lie over until petition can be found.

5. Alexander Burns. Recommended for 1200 acres.

6. John Carscallin. Referred to the Deputy Surveyor of the district to report.

7. Abraham Dayton. The petitioner should have applied to the Surveyor General before he sat down on any lot. The reserves ought not to be changed and it does not appear that the petitioner merits it in this instance.

8. Augustus and Ebenezer Jones. Recommended that the petitioners and Mr. Angus McDonell be heard before the Council and the right of possession determined according to justice. The Committee being not sufficiently informed cannot recommend the transfer prayed for.

9. Samuel Jones. Recommended for 200 acres if resident in the Province and has had no grant before.

10. Thomas Jones. Recommended for 200 acres if none granted before.

11. Perkin Lewis. Recommended for 200 acres if of age and he has had no land before.

12. Richard Lawrence. Settled before.

13. George Lutes, Senior. Stating that he has received 200 acres of land, and praying for an additional quantity. The Committee does not see any reason to add yet to the petitioner's land.

14. William Lundy. Recommended for such family lands as he may appear entitled to on producing the required certificate.

15. George Lawrence. It appearing the petitioner has received his family lands, Committee does not recommend an addition.

16. John Kelly. Recommended for 200 acres if he has never received any and is resident in the Province.

17. Thomas Kinsey. Recommended that 400 acres be granted to the petitioner on lodging the ticket mentioned in Surveyor General's office, and including the lots improved on.

18. Capt. George Ker. Capt. Ker not being in the Province, no part of his petition can be complied with.

19. John Kane. Recommended for 100 acres in addition (if he has not received his military lands before) upon producing his discharge.

20. Benjamin Kinsey. Recommended for 200 acres for himself, if no land has been granted him before. If the assignment has been regular through the Land Board it wants no confirmation.

21. Joseph Lemon. Recommended for 200 acres family lands as by magistrate's certificate.

22. Jacob Lemon. Recommended for 650 acres being his family lands according to a magistrate's certificate.

23. Samuel Letch. Recommended for 200 acres if not granted before.

24. Sebine Lake. Recommended for 200 acres if none has been granted before.

25. Thomas Lake. Recommended for 200 acres if none has been granted before.

26. Colonel McKee. Stating that he has been for many years in possession of a tract of land on the south side of the River Thames (by virtue of a deed from the Chippawas) now known by the description of Nos. 2 and 3 in the first township, that the same had been held with the consent and approbation of the Land Board of the Western District, and praying for a grant in the usual manner. Recommended to be referred to the Surveyor General to include the lands prayed for in the amount of land granted to the petitioner.

27. Alexander McQueen. Stating that he has received 360 acres of land and praying for an additional quantity, that he has three sons, stout men. The petitioner appears to have had his portion of lands, his grown up sons will of course have farm lots when they apply for them.

28. Peter McBride, Senior. Stating that he has received 500 acres of land, and praying for 250 acres more. Not recommended.

29. John Morden. Stating that he served as a private soldier during the late war in the Royal Yorkers, that he has received 100 acres of land, and praying to have his military allowance completed. Recommended to grant the prayer of this petition if not done before.

30. Moses Martin. Recommended for 200 acres if not granted before.

31. John McGlashan. Recommended for a town lot in Newark if none has been granted before.

32. John Mucklehone. Recommended for such family lands as he may appear entitled to on producing the required certificate.

33. William McDonell. Recommended for 200 acres if none has been granted before.

34. Mary Millard. Recommended for the 100 acres prayed for.

35. Patrick McDonell. Recommended to grant the petitioner the portion of a soldier if not granted before.

36. Peter McBride, Junior. Recommended for a town lot if he is of age.

37. James and Lois Mordoff. If the Deputy Surveyor certifies that the petitioners cannot be accommodated in the Midland District, the Deputy Surveyor will be authorised to allot lands to them in the Home District.

38. Peter McBride, Junior. Petitioner has been recommended for a town lot in Newark if of age.

39. Joseph McLauchlin. Recommended for 200 acres if not granted before.

40. John Mulholland. Recommended for 200 acres if of age and none granted before.

41. Mrs. Hannah McCartney. This belongs to some other petition.

42. James McLaughlin. Recommended for what may be due to petitioner to complete his military lands.

43. James McCollom. Recommended to make up petitioner's military lands if not granted before.

44. James McCarthy. Recommended for 300 acres as a soldier if none has been granted before.

45. John Mills. Recommended for 200 acres if not granted before.

46. John Moore. Stating that he has been settled seven years in this Province, that during the late war he sent several recruits to serve in the new raised corps within the British lines, that he has suffered much in person and property for his loyalty, and praying for an additional grant of lands. The Committee not being sufficiently informed respecting the petitioner defer coming to a decision on the additional lands proper to give him. Ordered 400 acres in addition.

47. John Morden. Recommended to make up the petitioner's military lands if not granted before.

48. Lieut.-Colonel McGregor. Praying for 10,000 acres of land for himself and such quantity as may be deemed meet for his wife and each of his five children. The Committee regrets that they cannot recommend the petitioner for more than 1200 acres to himself and a single lot to his wife and each of his children.

49. Thomas North. Recommended for 100 acres to complete his military lands, if not granted before.

50. Warner Nellis. Recommended for 200 acres in right of his wife, the daughter of a loyalist.

51. Warner Nellis. Recommended for 600 acres.

52. Israel Olmstead. Stating that he received a Land Board certificate for 200 acres of land on the River Rideau, that he made improvements thereon and built a house twice, which the Indians as often burnt, that he has built another for the third time, but dare not inhabit it as the Indians threatened him with death saying it is built on their hunting ground, and praying for assistance to obtain his lands. The Committee is not competent to recommend what may be proper to be done in the petitioner's case.

53. Peter O'Karr. Recommended for 400 acres in addition.

54. Andrew Ostrander. Recommended for 200 acres in addition if not granted before.

55. Ensign Pearse, Queen's Rangers. Referred to His Excellency.

56. John Petto, serjeant, Queen's Rangers. Referred to His Excellency.

57. William Pickard. The petitioner having sat down on the reserved lands of the Crown without authority, and being since secured in his improvements with an additional quantity on the other side the creek, the Committee does not think proper to recommend the prayer of the petition.

58. Presbyterian Congregation (of Newark). Praying for a tract of land as a fund for building a church. The Committee do not consider themselves authorised to recommend the appropriation of any lands for the purposes prayed for in this petition.

59. James Palmer. Recommended for 200 acres if not granted before.

60. John Pearson. Recommended for 400 acres, and that the Surveyor General may accommodate the petitioner as nearly to his wishes as practicable.

61. Joseph Page. Recommended to make up his military lands if not already granted.

62. John Peer. Recommended for 200 acres for himself if not granted before, but it does not appear that his wife has been the daughter of a U.E. Loyalist.

63. John Purvis. Recommended for 200 acres if not granted before.

64. Joseph Petrey. Stating that he served as serjeant in Butler's Rangers, that he has located 300 acres of land in the township of Saltfleet, and praying to be confirmed in the same and for an additional grant of 300 acres family lands. Recommended.

65. John Pettit. Recommended for 200 acres in addition to the 200 he has received for himself, and such family lands as he may be entitled to.

66. David Palmer. Recommended for 200 acres if not granted before and such family lands as petitioner may appear to be entitled to.

67. Christian Price. The petitioner can only be recommended for 200 acres in right of his wife, if not granted before, on producing the required certificate.

68. William Price. Recommended for 200 acres in right of his wife (daughter of John Soper), on producing the required certificate, if not granted before.

69. Joseph Powell. Recommended for 300 acres if not granted before.

70. David Ramsay. Recommended for 600 acres.

71. Margaret Ryckman. Stating that she is the daughter of a loyalist, that her husband, Cornelius Ryckman, received 200 acres of land in the 8th township, that the late Land Board granted 100 acres family lands to petitioner, that she has been separated from her husband for a length of time, in consequence of ill usage, and now understanding that he intends disposing of the said lot, prays to have it confirmed to her and to her son, Cornelius C. Ryckman. To lie over for further information.

72. Barent Roorbach. Praying for a township. Unnecessary to answer this letter until the writer comes in to this Province.

73. Andrew Roney, private in the Queen's Rangers. Referred to His Excellency.

74. Benjamin Robinson, private in the Queen's Rangers. Referred to His Excellency.

75. Christian Ricely. Recommended for 50 acres, it not appearing that petitioner is entitled to family lands.

76. Stephen Secord. Recommended for 200 acres in right of his wife on producing the required certificate.

77. Joseph Smith. Recommended for 200 acres in right of his wife on producing the required certificate.

78. Walter Slingerland. Praying for lot 282 in the town of Newark. Referred to the Surveyor General to be complied with if no town lot has been granted before and he has complied with the conditions.

79. Frederick Smith. Recommended for such family lands as he may appear entitled to on producing the required certificate.

80. Alexander Stewart. Praying for a town lot in Newark. Referred to the Surveyor General to be granted if the allegations are true.

81. Philip Servos. Recommended for 200 acres if not granted before.

82. Lieut. Charles Selleck. Stating that he served during the late war (with the rank and pay of Lieut. in the Army) on board of the armed gun boats commanded by Colonel Hubbell, and praying for the quantity of land usually granted to officers of that rank. The Committee are not sufficiently informed to recommend the petitioner's claim as a reduced officer, but judge him deserving of any quantity of land His Excellency may please to order him.

83. Michael Sloot. Recommended that the petitioner be considered as a Lieut. in Cuyler's Corps on the faith of the certificate produced and admitted to the lands he may be entitled to as such.

84. James Stewart. Recommended for the additional lands he may be entitled to on producing his warrant and becoming a resident in this Province.

85. Garret Slingerland. Recommended for the remainder of his military lands if not received before.

86. John Shaffer. The petitioner will get the lands he is entitled to on lodging the certificates in the Surveyor General's office. The transfer under the Land Board needs no confirmation.

87. Major Smith, Queen's Rangers. Praying to have 1000 acres of land granted to him at the Tobacaok in lieu of that granted to him heretofore in the township of Flamborough. Recommended to grant the prayer of this petition.

88. Peter Smith. Stating that he purchased 600 acres of land from Jethro Jackson, and praying to be confirmed in the same. The Committee cannot recommend the prayer of this petition.

89. Peter Sharp, innkeeper. The petition does not come within the cognizance of the Committee.

90. Stephen Slaughson and Thomas Halsted. Stating that they are farmers and live in Rensselaer County, state of New York, that they wish to remove into this Province with forty families, and praying for 10,000 acres of land between York and Lake Simcoe to accommodate them as well as the petitioners. Not recommended.

91. Philip Smith. Recommended for 200 acres if of age and not granted before.

92. Staats Springsteen. To lie over.

93. Alexander Summers. Recommended for 200 acres if not granted before.

94. Francis Stephenson, late Queen's Rangers. Praying for 1000 acres of land near the seat of Government, 1000 in the Bay of Quinté, 1000 in Cornwall, and Grenadier Island also. Referred to His Excellency observing that no island can be granted.

95. Peter Smith, late Lieut. Praying for lot 11 in front and rear of the township of Sidney, which has been formerly granted to Daniel Celby but never improved. Referred to the Surveyor General to report on the quantity of the lands the petitioner may be entitled to and the merits of the case stated.

96. Joshua Smades. Recommended for 200 acres.

97. John Stansfield. Stating that he served during the American War on board of the *Magnificent* of 74 guns, Captain Robert Lindsey, that he has a wife and eight children, and that he has received 200 acres of land. Prays for an additional quantity, and to be confirmed in a lot of land which he purchased from a man who served in Arnold's Corps. The Committee cannot recommend the prayer of this petition.

98. Peter Secord, Senior. Recommended for 200 acres.

99. David Shank. Recommended to grant the remainder of petitioner's military lands in Flamboro' agreeable to his desire.

100. Major Smith, Queen's Rangers. Praying for 1200 acres in addition to his military lands, and such quantity as may be deemed meet for his sister, Anne Smith. The Committee is not authorised to recommend any addition to officers' military lands, but recommend that 1200 acres may be granted to petitioner's sister, Anne Smith, when she becomes a resident of this Province.

101. Samuel Street, Junior. Recommended for 200 acres if none granted before.

102. Aaron Stevens. Praying for 200 acres in right of his wife, the daughter of a loyalist. Wants the certificate.

103. James Slack. Recommended for 200 acres in addition, and such family lands as he may appear entitled to on producing the required certificate.

104. Thomas Smith. Stating that he has received from the Land Board for the Western District a grant of lot 12 in front of the first township north side of River la Tranche, now the Thames, on which lot he has expended a large sum of money, and praying for a deed for the same. Apprehended to be one of the lots claimed by Sally Ainse, and referred to the decision of her claims.

105. Thomas Smith, of Detroit. Recommended for 1200 acres including the lands already granted to him.

106. John Stacy. Stating that he has improved lot 6 in Long Point Bay, praying for a grant for the same and an additional quantity of lands for his family. The lot prayed for and received contains nearly 300 acres.

107. James Secord. Recommended for 200 acres if not granted before.

108. Daniel Secord. Being absent, no notice can be taken of this petition.

109. Jonathan Tuttle. The petitioner's sons if of age will receive lands on their application.

110. Jonathan Schieffelin. Recommended to complete his received lands to 2000 acres as a reduced officer on producing his commission.

111. Elizabeth Thompson, relict of the late Adjutant William Fraser of late 2nd Battalion Royal Yorkers. Praying for 2000 acres of land in his right. If Adjutant William Fraser has not received the whole of the lands he was entitled to, the Committee recommend that the quantity due may be granted to the heirs of his body, and in failure of those to his widow, being resident and producing certificate of marriage.

112. Samuel Thompson. Stating that he is heir to his late brother, Captain Andrew Thompson of Butler's Rangers, who lost his life in the year 1781, and praying for the quantity of land officers of his rank are entitled to. The Committee cannot recommend the prayer of this petition for reasons repeatedly assigned on similar occasions.

113. John and George Turney. Stating that they served as volunteers in Butler's Rangers, that they have each received 300 acres of land, and praying for an addition thereto. Not recommended.

114. Christian Troyer. Stating that he settled in Long Point Bay under the same order with his brother, John Troyer, praying to be confirmed in the

lot he now occupies and an additional grant contiguous thereto. Not recommended.

115. John Troyer. Stating that he occupies a lot in Long Point Bay which he purchased for £50. Praying to be confirmed in the same and for an additional grant. Petitioner having got a lot, not recommended.

116. Peter Vandrisee. Recommended for 300 acres if not granted before.

117. William Vanderlip. Recommended for 300 acres as a soldier for himself if not granted before, and his wife's lands if she appears to have been the daughter of a loyalist on producing the required certificate.

118. Edward Vanderlip. Recommended for 200 acres if not granted before.

119. John Wrong. Stating that he is married to the widow of the late Jeremiah Johnson, who left eight children, and praying for family lands in her, and their, right. Recommended that if Jeremiah Johnson, deceased, has never received his family lands they may be given to the wife of the petitioner on her producing the required certificate.

120. John Willson of the King's Mills. Recommended for broken lots 4 and 5 on the Humber as prayed for in part of 1200 acres. The lot 30 on Yonge Street referred to His Excellency's pleasure.

121. Jacob Willson. Recommended for the remainder of his military lands on producing his discharge.

122. Ann Wilkins. Recommended for 200 acres on her marriage.

123. Peter Whitney. Recommended for 200 acres if a resident and not granted before.

124. Serjeant John Wilson, late of Butler's Rangers. Recommended for family lands if he appears entitled on producing the required certificate. Referred to the Surveyor General to be accommodated where he has located his military lands if practicable.

125. John Wintermute. Recommended for 200 acres in addition and such family lands as he may appear to be entitled to on producing the required certificate.

126. John Wilson. Stating that he has received 200 acres in Crowland, and praying for an addition thereto. Not recommended.

127. Detrick White. Stating that he has improved a lot in Long Point Bay and praying for an addition thereto. The lot prayed for has been already granted to the petitioner and will amount to more than 300 acres.

128. Robert Wilkins. Stating that he has purchased half a town lot in Kingston from Lieut. O'Neil, and praying for a grant of the water in front of said lot. Referred to the Deputy Surveyor of the district to report thereon.

129. Miles Winslow. Recommended for 200 acres if not granted before.

130. Edia Wintermute. Recommended for 150 acres family lands as per certificate.

131. Henry Young. Recommended for his military lands if not given before.

132. Daniel Young. Recommended for 500 acres as a serjeant if not granted before; and lands in right of his wife on producing the required certificate.

133. George Ironsides. Praying for twelve hundred acres of land as an Indian storekeeper and clerk. Recommended for the same quantity of land as the preceding storekeeper, Mr. Dugan.

Petitions read on the 8th July:

1. Captain Samuel Anderson. Stating that he has received 1400 acres of land, and praying for the remaining 1600 acres. Recommended to grant the prayer of the petition if not completed before.

2. Reverend John Bethune, Chaplain to the late 84th Regt. Recommended for the remainder of his military lands if not granted before.

3. Mary Cowan. Recommended for 200 acres on her marriage.

4. Lieut. James Campbell. Stating that he has lodged all the land certificates he was possessed of with the Clerk of the Peace for the Eastern District, but having no certificates for 1500 acres in the township of Oxford on the south side of the River Rideau (additional lands) prays for a deed for the following numbers: 19, in the 1st and 2nd concessions; 7, in the 5th, 6th, 7th and 8th concessions in the township of Oxford; also 7 and half 8, in the 4th concession of the said township for his father. Referred to the Surveyor General's office that, if he appears entered there, descriptions may be sent to the Attorney General.

5. Donald Campbell, and others. Stating that they drew lands in county of Glengary, and got lots 37 for Donald Campbell, 35 for Donald McDonell, 14 for Alexander McLinan, and 27 for Archibald McGilvray, all in the 15th concession of the township of Lancaster in the aforesaid county; that by mistake their names were not inserted in the plan for said lots, praying that their names may be inserted on the said plan and that deeds may issue in course. Referred to the Surveyor General to be complied with if practicable.

6. Lieut. Alexander Campbell, and others. Referred to the Surveyor General to be carried into execution if consistent with the general regulation.

7. Archibald Cunningham. Recommended for 1200 acres as an old merchant and settler.

8. Thomas Doyle. Stating that his deceased uncle received 500 acres of land which he bequeathed to petitioner, and praying for a deed for the same. The petitioner will of course be entitled to his uncle's legacy. The location of the grant in question must be left to the Surveyor General.

9. John Faries. Recommended for 600 acres if not granted before.

10. Peggy Hoffman. Stating that she is the only surviving child of the deceased Nicholas Hoffman of the Loyal Rangers, who was entered on the plan of Fort Erie township for 300 acres, and praying for a grant of the same. Recommended to grant the lands due to Nicholas Hoffman to his surviving heirs.

11. Edward Jackson. Praying to be allowed to exchange lot 9 in the 8th concession (which is an entire swamp) in Augusta, for lot 23, 1st concession of the township of Wolford. Referred to the Surveyor General to be complied with if practicable.

12. Daniel Jones. Praying for a lot on the Ottawa River, known by the name of Chieur Falls, to erect grist and saw mills on. Prior applications having been made for the same place, the prayer of this petition cannot be recommended.

13. John Lawrence, Esquire. Recommended for 1200 acres including any former grant.

14. John Lawrence, Esquire. Recommended to grant to the petitioner Nos. 1, 2, and 3 being broken fronts on the east side the Humber, as part of the 1200 acres recommended to be granted to him. The Committee do not recommend the dismembering any part of the ground at present attached to the saw mill for the reasons assigned in the report, nor do they recommend the granting lots on Yonge Street to persons out of the Province.

15. Elizabeth McAlpine, widow of Capt. McAlpine. Recommended for 1200 acres including the quantity ordered her by Government.

16. John Munro, of the township of Yonge. Committee cannot determine to whom lot 14 belongs without hearing both parties.

17. Louvigny de Montigny. Praying for two farm lots near the island of Bois Blanc to accommodate his family and that of the late Governor Hay. It is apprehended that the petitioner is included in the two lots asked for by Mr. Hay.

18. George Meldrum. Recommended for 1200 acres, including all former grants.

19. Arthur McCormick. Recommended for the same quantity of land that Mr. Dugan has had granted to him, if none has been granted before, in which case to be made up.

20. Charles Morrison. Recommended for 1200 acres on his removing from Michillimackinac and residing within this Province.

21. Angus McGillivray. Stating that he got a ticket for lot 29 in the 8th concession of the lake township, county of Glengary, that by some mistake his name was not entered on the plan of the said township, that four years subsequent to petitioner's settling on, and improving said lot, one John McDonell received a Land Board certificate for the same, that he has been informed that said John McDonell has presented his certificate to the Attorney General, who will probably issue the deed in his name being ignorant of the circumstances, and praying for the interference of the Council. Recommended that the Attorney General be written to stay proceedings with respect to the lot mentioned, and referred to the Surveyor General to enquire into the premises and report thereon.

22. Cornelius Munro, Esquire. To enquire whether the petitioner has not already received military lands.

23. Malcom McMartin. Stating that he has drawn lot 11 on the south side of the River aux Raisins, which lot contains only 50 acres, and praying for a gore of land between the north bank of the River aux Raisins and the 7th concession line, which contains about 40 acres. Referred to the Surveyor General.

24. Mary McKenzie, in behalf of her sons the children of John Miller, and John McKenzie deceased who served as private soldiers in the 84th Regt. Recommended that any military lands due to the deceased may be granted to their heirs.

25. Alexander McKenzie. Stating that he is nephew and heir to the late Capt. John McKenzie of the Royal Yorkers, that the late Capt. McKenzie had only located 1250 acres, and praying for the remaining 1750 acres. Not recommended.

26. Alexander McKenzie. Stating that he is son and heir to the late Lieut. Kenneth McKenzie of the Royal Yorkers, that 500 acres have been granted to the family of petitioner's father, and praying to have the usual proportion of 2000 completed. Recommended to grant the military lands due to the late Lieut. Kenneth McKenzie to the lawful heirs of his body, the location left to the Surveyor General.

27. Patrick Robinson. Recommended for 400 acres if not granted before.

28. Captain Justus Sherwood. Recommended that whatever military lands may be still due to petitioner as a reduced Captain may be assigned to him by the Surveyor General to whom the location thereof is referred.

29. Elizabeth Thompson. Determined on long ago.

30. Roderick Urchart. Recommended for his portion of military lands if not granted before and referred to the Surveyor General for including the lot prayed for if practicable.

31. Abraham Wing. Stating that he served as a volunteer from the year 1777 to the close of the war, that he has received 450 acres of land, and praying for 750 in addition. Not recommended.

Petitions read on the 9th July:

The Committee beg leave to recommend to Your Excellency that directions may be given to the Attorney General to include all the lands which each officer claims for his military services in one deed, unless requested by the parties themselves to do otherwise, and that notice be given as early as possible to officers of this description that they lose no time in sending to the Attorney General's office all the certificates or assignments of the lands granted them that one general deed may issue for the whole unless they wish to have separate grants, in which case they are to have only the deed for the largest number free of expense and are to pay fees for each of the others.

1. Alexander McKenzie. Praying for lands as an Indian Interpreter. Recommended for six hundred acres.

2. Janet McLees, widow of the late William McLees, deceased. Praying that lot 34 in the 3rd concession of Ancaster, which had been assigned to her said late husband, may be now granted to her. Recommended to grant the lot (if entered by authority) to the heirs of the deceased, and in case of failure to the widow.

3. Joseph Anderson. Praying for lot 14 in the town of New Johnstown, and park 5 in the front of said town, east side. Referred to the Deputy Surveyor of the district, to be granted if practicable.

4. Thomas Bowlby. The petitioner being one of Mr. Francis' settlers and recommended by him for 400 acres in the 10,000 appropriated for them on the west side Patterson's Creek, he is recommended by the committee for 400 acres.

5. John Blacker, Esq. Stating that he married Mary W. Meyers a loyalist (U.E.) and praying for lot 2 in the 1st concession of the township of Murray in her right. Referred to the Deputy Surveyor of the District to be complied with if consistent with his general instructions.

6. William Carl. Recommended for 200 acres of land if not granted before.

7. Henry Crow. Recommended for 200 acres if not granted before.

8. John Decow. Recommended for 200 acres in addition.

9. James Day. Recommended for 200 acres if not granted before.

10. William Francis. Recommended to be referred to the Surveyor General to comply with the prayer of the petition if practicable.

11. Hugh Gallagher. Stating that he served in the 44th Regt. and is now in the Queen's Rangers, and praying for the usual quantity of land granted to soldiers. Referred to His Excellency.

12. James Green. Praying for the township of Nepean. The township of Nepean can be settled only under the terms of the Proclamation.

13. Hugh Holmes. Recommended for 200 acres if not granted before.

14. Samuel Heron. Stating that he has received 200 acres of land, and praying for an additional quantity. Not recommended.

15. Thomas Hamilton. The petitioner being one of Mr. Francis' settlers and recommended by him for 600 acres in the 10,000 acres appropriated for them on the west side of Patterson's Creek, he is recommended by the Committee for that quantity.

16. James Jones, private in the Queen's Rangers (formerly a fifer in the Duke of Cumberland's Regiment of Foot). Referred to His Excellency.

17. Jethro Jackson. Praying for lots 32 and 33 in the township of Murray, with their broken fronts. Not recommended, the petitioner having sold the lands granted him before receiving a patent and without authority.

18. Laurence Johnston. Praying for lot 19 east side Yonge Street. To lie over for appearance.

19. Joseph Jackson. Recommended for 200 acres if not granted before.

20. Thomas Lyon. Praying for lot 42 east side Yonge Street. To lie over for appearance.

21. Capt. Lippencott. Recommended to complete Captain Lippencott's military lands as a reduced Captain.

22. Simon McNabb. Praying for lot 97 in the town of Newark. Referred to the Deputy Surveyor to grant if vacant and the petitioner be of age.

23. James Miles. Praying for lot 37, east side of Yonge Street. To lie over for appearance.

24. Hugh Munro, Esq. It does not appear that the Order of Council authorised Capt. Munro to place himself on any lots without the intervention of the Surveyor General's office. Whatever lots Capt. Munro has regular assignments for deeds will issue of course on his lodging them with the Attorney General.

25. Hugh Munro, Esq., for self and associates. If the assignments appear regular, nothing else is necessary but to lodge them with the Attorney General.

26. William Park, of Detroit, merchant. Recommended for 1200 acres if not granted before.

27. Edward Reading. Recommended for 300 acres if not granted before.

28. Seth Soper. Land Board certificate. Referred to the Surveyor General.

29. Nathaniel Taylor, Junior. Recommended for 600 acres.

30. Malcolm Wright. Praying for 500 acres of land on Yonge Street. To lie over for appearance.

31. John Wilson, Senior. Recommended for 200 acres of land if not before granted.

32. John Wilson, Junior. Recommended for lot 18, west side Yonge Street. The lot asked for on the Humber is reserved.

33. Ebenezer Washburn. Praying for lots 1 and 8 in the township of Fredericksburg. The committee not sufficiently acquainted with the merits of the petitioner to recommend a compliance with his request.

34. Sally White. Recommended for 200 acres if in a capacity to cultivate them.

35. Amos Wright. Stating that he purchased from Jonathan Purkins, deceased, lot 12 in the 3rd concession of the township of Escott, county of Yonge, on which lot there is a mill site, and praying for a grant of said mill site to erect a mill thereon. Purchase does not appear regular, and mill sites belong to the possessors of the land on each side of the stream.

Petitions read on the 11th July:

Read the petition of John Lawrence, Esquire, praying for a mill seat on the River Humber. The Committee, having considered the report of the Deputy Surveyor with the plan accompanying it, and having heard what Mr. Lawrence and Mr. Wilson had to say on the subject, are of opinion that the position prayed for is a very eligible one for mills and would answer better in the hands of one person than of two but, as it appears that every injury likely to accrue to the King's saw mills by erecting a grist mill on the little island may be obviated by a certain expense and precaution, and it may be of very great advantage to the neighbouring settlements that a grist mill be erected there without delay, the Committee begs leave to recommend the prayer of the petition to Your Excellency upon conditions that Mr. Lawrence enters into bond with sufficient security in the penalty of £500 to His Majesty if he does not secure the island with piles and other means from being washed away in consequence of the races which are to be cut through it, and if he does not take every precaution which may be suggested to guard against injury being done to the King's mill by his works, and that he will surrender his grant to the King if he fails in commencing his grist mill before the end of one year from this date, and does not finish it fit for grinding before the expiration of two years. Upon Mr. Lawrence's complying with these conditions, the Committee sees no objections to Your Excellency's granting the mill site as washed with red on the map, and as much of the land between the two roads on the west of the Humber as he may wish, not exceeding thirty acres, and provided that his line does not pass too close on the ground wanted for the King's mill. (Signed) Peter Russell, Chairman of the Committee. Approved. (Signed) J. G. Simcoe.

1. Charles Annis. Recommended for 200 acres of land if not granted before, location left to the Surveyor General.

2. Jean Baptiste Bouchette. Stating that he has a son and seven daughters, and praying for a grant of land for each of them. The seven daughters of Captain Bouchette recommended for 200 acres each on their marriage.

3. John Baily, ship carpenter. Recommended for 200 acres when discharged, if not granted before.

4. Richmund Bass. Recommended for 200 acres if not granted before.

5. Samuel Booth, etc., the sons of John Booth, Senior, deceased. Stating that Mr. Collins entered with a pencil their father's name for 500 acres on the plan of Elizabethtown, being lots 37, east side, 35 and 31 west side in the 4th concession of said township, and lot 31, 2nd concession; that Mr. Collins had no blank certificates at the time he made the above entries but promised to send them to petitioners on his arrival at Quebec. No certificates came to hand, but their father at his death assigned said lots to petitioners, which they have settled and improved at a great expense considering themselves perfectly secure, but they now find that the above lots are reserved for the use of the Crown. Referred to the Surveyor General to report thereon and be accommodated if practicable.

6. Charles Blake, Garrison Surgeon for the city of Montreal. Stating that by His Majesty's Instructions to the Governor General, he is entitled to a proportion of land equal to a Captain of His Majesty's reduced forces, that he has drawn 1200 acres thereof on the Ottawa or Grand River, that in the year 1792 the Land Board for the Eastern District located to him 1800 acres of land in the 1st, 2nd and 3rd concessions of the township of Marlborough, but that upon examining the map of the said township it does not appear that petitioner's name is entered thereon; he therefore prays that his name may be inserted for lots 10, 11, and 12 in the 1st, 2nd and 3rd concessions of said township, and that a deed may issue in his name. To lie over until reference can be had to the Council Book of Quebec.

7. Jonathan Bertron. Recommended for 200 acres if not granted before.

8. David Bertron. Recommended for 200 acres if not granted before.

9. William Chewett. Stating that he has received 1200 acres of land, and praying for 800 in addition being his right as a staff officer. The Committee not having His Majesty's Instructions referred to in Governor Hamilton's certificate, and consequently not having the means of knowing whether staff officers of his

description were put on a footing with subaltern officers, they are sorry they cannot recommend the petitioner's claim, but if the petitioner can make it appear he is entitled, this resolution is not intended to bar his coming forward with it again.

10. William Chewett. Praying for a lot in the town of York. Recommended.

11. Marmaduke Crozier, ensign. When Mr. Crozier adduces proofs of his having been an officer in Colonel Brown's Corps his claims may be admitted.

12. Miss Crookshank. The Committee recommend the petitioner for 1200 acres.

13. Samuel Dodge. Recommended for 200 acres if not granted before.

14. Alexander Duff. Recommended for 600 acres if none has been granted before.

15. John Dexter. Praying for lot 43 east side Yonge Street. Recommended by the Committee.

16. Mary Fisher, widow. Recommended for family lands, being 450 acres, if not granted before.

17. John Fraser. Stating that his daughter, Mary Fraser alias McNeil, obtained a certificate on the 8th Oct., 1794, from the Land Board of the Eastern District for lot 21 in the 5th concession of the township of Lancaster, which lot he has settled upon and improved, that he has been lately informed that the said lot is a clergy reserve, and praying that his daughter may be confirmed in said lot. Referred to the Surveyor General and recommended to be accommodated if practicable.

18. Captain James Fulton, King's American Dragoons. Praying for 3000 acres. It having been reported on proper authority to the Committee that 700 acres were granted to the petitioner by the Government of New Brunswick, and sold by him, it is recommended that the remaining quantity as a reduced Captain of Provincials due to him may be granted upon his becoming a settler within this Province.

19. Edward Gahan, boatswain in the Marine Department. Recommended for 400 acres when discharged, if not granted before.

20. W. Hunter. Praying for 1200 acres of land and the water lot opposite to No. 23 Water Street, Kingston. Recommended for 600 acres, if none has been granted before, and referred to the Deputy Surveyor of the district to be accommodated with the water lot if practicable.

21. James Hull. Recommended for 200 acres if not granted before.

22. George Hall. Recommended for 200 acres if not granted before.

23. Amos Judson. Recommended for 200 acres if not granted before.

24. Eleazer Lockwood. Praying for lot 7 with the broken front in Whitby. Not recommended.

25. John Ledan, Queen's Rangers. Referred to His Excellency.

26. Christopher Le Maire. Recommended for 500 acres as serjeant if not granted before and upon producing his discharge, provided petitioner becomes a resident in this Province.

27. Cornelius Lambert. Recommended for 100 acres in addition if not granted before.

28. Messrs. McKee, Elliot, and Caldwell. Praying for 1000 acres each at the mouth of Detroit River. The prayer of the petition recommended.

29. Moses Morden. Stating that he has received 400 acres of land, and praying for an additional quantity. Not recommended, it appearing petitioner has got his complement.

30. Ralph Morden. Stating that he has received 200 acres of land, and praying for an additional quantity. It does not appear the petitioner is entitled to more land.

31. David Morden. Praying for lot 14 in the 1st concession of the township of Flamborough on which there is a mill seat. Referred to the Surveyor General to be accommodated if practicable and he produces certificates of his ability.

32. Ensign James McDonell, late 84th Regiment. The petitioner not being a resident the Committee see no reason why an appropriation of the military lands which may be due to him should be made in this Province especially as a tract was particularly set apart for the 84th Regt. on the Ottawa River in Lower Canada.

33. Alexander McKee. Recommended for 200 acres if none granted before.

34. Anne McDonell, mother to the Speaker. Recommended for 1200 acres of land if not granted before.

35. Andrew McCan, Lieut. in the late Queen's Rangers. Referred to His Excellency.

36. Godlipp Michells. Recommended for 200 acres in addition as a soldier, if not granted before, upon producing his discharge.

37. Hugh McLean. Praying for lot 41 on the east side of Yonge Street. Recommended.

38. Henry Mace. Recommended for lot 45 east side of Yonge Street, if no lands have been granted before.

39. Benegar Mallory. Stating that he settled on, and made a tan yard on lot 2 in the 5th concession of Dayton's township, which proves to be a reserve. Praying to be confirmed in the same, and that the reserve may be laid on some other lot. Not recommended as the petitioner had it in his power to be informed by application to the Surveyor's office.

40. George W. Meyers. Recommended for 400 acres in addition to the 200 received.

41. William McQueen and Roderick McDonell. Stating that in the year 1789 they purchased from Mr. James McDonell, Deputy Provincial Surveyor, lots 36 and 37 in the 7th concession of the township of Charlottenburg; that upon examining the plan of the said township they find the name of John Grant of Strathspey entered for the said lots, to which he can have no right having been privy to the purchase, praying to be confirmed in the same, and that deeds may issue in their names. Unless the lots in question were transferred under the sanction of the Land Board the transaction appears to be illegal. Reference must consequently be had to Mr. James McDonell to warrant the petitioners' title to the lots prayed for.

42. Daniel Millard, Esq. Stating that he received last summer a grant of 800 acres of land in addition to 200 previously received, that his house has been burnt since, and with it the Minutes of Council for the above 800 acres which he had not located, and praying that he may have a grant of the like number of acres in the Long Point Settlement. The petitioner may get his Minutes of Council renewed by application to the Council office.

43. Archibald McLaughlin. Praying for lot 132 in the town of Newark. Recommended for a town lot if none has been granted before on the usual conditions. Referred to the Surveyor General for location.

44. Anne Morden. Stating that she has received 380 acres of land in the township of Flamborough, that her name is inserted on a 100 acre lot in the township of Barton which she has improved but has no certificate for said lot,

and praying to be confirmed in the same. Recommended to be assigned by the Surveyor General.

45. Helena Wilkinson, daughter of the late Captain McDonell. Recommended for 600 acres including her rights as the daughter of a loyalist.

46. Ruliph Ostrom. Recommended for 200 acres in addition and, should it be hereafter judged expedient to escheat Jones's lot, the petitioner to be considered as having a prior claim to other applicants.

47. Elijah Owen. Recommended for 200 acres if not granted before.

48. George Playter. Recommended that the lots assigned to Mr. George Playter may be made up 1200 acres to himself agreeable to the Order of Council of 13th July, 1793, but petitioner's claim to lands as a reduced officer of Provincials cannot be admitted upon the proofs already adduced.

49. Alexander Perry, Serjeant-Major Queen's Rangers. Referred to His Excellency.

50. William Peeck. Stating that he has built a house and made great improvements on lot 27, township of Hope, and praying to be confirmed in the same. A certificate must be produced from the persons for whose associates the township of Hope was appropriated that the petitioner has their approbation before he can be confirmed.

51. William Pace. Recommended for 200 acres if not granted before.

52. Artimuss Rosse. Recommended for 200 acres in Murray if not granted before.

53. Miss E. Russell. Recommended for lots 16 in the 2nd and 3rd concession west of Yonge Street in part of 1200 acres granted to the petitioner under an Order of Council.

54. John Rogge. Recommended for 200 acres in right of his wife, the daughter of a loyalist, on producing the required certificate.

55. Henry Smith and associates. The petitioners recommended for 200 acres each if not granted before.

56. Joseph Shepherd. Recommended for lot 17 west side Yonge Street, if none granted before.

57. George Scarlet. Recommended for 200 acres if not granted before.

58. Peter Freel. Stating that in consideration of his services during the late war he was put on the list of gentlemen pensioners and, as such, conceives himself entitled to a subaltern's proportion of land, that he has received 500 acres, and praying for the remaining 1500. Not recommended.

59. Catherine Valentine, widow of the late Mr. Valentine of the Royal Yorkers. Stating that after the decease of her husband in the year 1792 she applied to and was located by the Land Board for the Eastern District, 1200 acres, in right of her said husband, in the 1st, 2nd and 3rd concessions of the township of Marlborough, that upon examining the map in the possession of the present Deputy Surveyor of said district she finds those lands are not filled up in her name or that of her late husband, and praying that the Surveyor General may be directed to insert her name or that of her late husband for the said 1200 acres on lots 13 and 14 in the 1st, 2nd and 3rd concessions of the said township, and that deeds may issue for those lands and all other lands granted to her late husband for which his name is inserted on the map of the said Eastern District. Referred to the Surveyor General to be complied with if practicable.

60. Peter Van Dresa. Recommended for 300 acres as a soldier if none granted before.

61. George Wood. Recommended for 400 acres if none granted before.

62. Cognition of exchange of lands between Joseph White, Junior, deceased, and Joseph White, Senior, of the township of Augusta. This appears to be likely to become hereafter a question of law which the Governor and Council are not competent to determine.

63. Robert Young, Junior. Praying for lot 4 in the township of Murray. It is apprehended that the petitioner has already had land granted him.

64. Heirs of the late Capt. McDonell. Stating that claims resting upon supposed titles from the late Land Board are set up against the right which the petitioners hold from His Excellency in Council to certain lands situated in Burlington Bay, and praying to be heard by their attorney before His Excellency in Council, and that a day to hear the said heirs and the claimants respectively be assigned. Supposed to be settled.

Petitions read on the 12th July:

1. Christian Almis, late a soldier in the German troops. Stating that he came into the Province in the year 1787 with a wife and four children, that he has received 160 acres of land and praying for 400 acres in addition. Certificate to be produced, and discharge to be verified.

2. Joseph Brigham, and associates, praying for 48,000 acres of land. Not recommended.

3. Thos. Bealey. Stating that he has received 200 acres of land, and praying for an additional quantity. Not recommended.

4. Rev. Joham Conrad L. Broffee. Recommended for 600 acres if not granted before.

5. James Burdick. Recommended for 200 acres if not granted before.

6. John Backhouse. Stating that he has received 600 acres of land and praying for an additional quantity. Not recommended.

7. Peter Benville. Stating that he has received 200 acres of land and praying for an additional quantity. Settled.

8. John Bice. Recommended to complete his family lands, if not granted before.

9. Jack Baker, late Butler's Rangers. Stating that he has received 200 acres of land, and praying for 100 acres in addition. Recommended on producing discharge, if not granted before.

10. Peter Bougener. Recommended for 100 acres in addition if not granted before. Certificate wanted.

11. Catherine Ball. Recommended for 200 acres if not granted before.

12. John Ball. Recommended for 200 acres in addition, but Snow's lot having been previously applied for and promised in default of his not having heirs, cannot be recommended for petitioner.

13. Margaret Ball. Recommended for 400 acres if not granted before.

14. Thomas and John Baxter. Recommended to be confirmed in their father's land and 200 acres each, if of age.

15. Joshua Booth, Esq. Praying for lot 14 in the 5th concession of Ernesttown, a Crown reserve. Not recommended.

16. Lucretia Bailey, widow. Stating that she is the daughter of Peter Secord, Senior, a loyalist (U.E.), that she never received land, and praying for 200 acres. Certificate to be produced.

17. James Burns. Recommended for his own and wife's lands if not granted before.

18. Cornelius Bowen. Recommended for his family lands if not granted before, and 100 acres to complete his military lands.

19. Mathew Camp. Recommended for 300 acres upon proving his allegation if not granted before.

20. Aaron Crips. Stating that he has received assignments for two lots in the township of Barton, that his name is inserted in the plan thereof for three other lots, but has never received certificates for them or any lands for his family. Assignments to issue if allegations true; certificate wanted for family lands.

21. Peter Cannagiser. Recommended for 300 acres if not granted before.

22. John Chisholm. Referred to the Surveyor General to direct an enquiry to be made into the premises and report thereon.

23. John Cumming. Praying for 1200 acres of land. It being understood the petitioner resides mostly at Montreal, not recommended.

24. Philip Crips. Stating that he has long since occupied a 200 acre lot in the township of Barton, that his name is entered in the plan thereof for said lot yet he has never received a certificate, and praying to be confirmed in the same. Recommended to be granted if his allegations are true.

25. Mathew Kern, late Butler's Rangers. Stating that he has only received 150 acres of land, and praying for an addition thereto and what may be due to him as a Ranger. Recommended for the land due to him if not granted before.

26. Silas Carter. Recommended for 200 acres in addition if not granted before.

27. Thomas Clark. Recommended for 600 acres if none granted before.

28. George Campbell, late serjeant King's Rangers. Recommended to make up the quantity he may be entitled to as a serjeant.

29. Richard Cockrel. Praying for a town lot in Newark. Recommended if none granted before.

30. William Crooks. Praying for lot 198 in the town of Newark. Recommended if vacant.

31. George Campbell, carpenter. Recommended for 200 acres if not granted before.

32. Richard Donavan. Recommended for 600 acres, if none granted before.

33. James Dowling. Recommended for 200 acres, if not granted before.

34. George Dowbisbeck. Recommended for 200 acres, if present and not granted before.

35. John Darling. Recommended for 200 acres, if not granted before.

36. Asa Dayton. Recommended for 200 acres, if not granted before.

37. Benjamin Doyle, late Butler's Rangers. Stating that he never received any land, that he has a wife and six children, and praying for 300 acres for himself and 400 acres family lands. Discharge and certificate wanted.

38. David Deamud. Praying for 200 acres at the Long Point Settlement. Recommended, but not at Long Point, if not granted before.

39. Oliver Everts. Stating that he was recommended by the Land Board for the county of Grenville for 1500 acres of land as his additional allotment of land as a staff or warrant officer, and a mill seat on the third falls on the Gananoque river, as specified in a petition which he presented to Council some time since, that he is ignorant of the fate of said petition, and praying for a grant of said land and mill seat on condition of his building such mill or mills as may be necessary to promote the settlement of the adjacent country. To lie over until the Lunenburg papers can be searched, as petitioner's claim has not been admitted by the Council of Lower Canada.

40. Hugh Earl. Recommended for 400 acres.

41. Pierre M. Fortier, Lieutenant, Marine Department. Praying to have his proportion of land made up to 3000 acres. The petitioner has not made it appear that he is entituled.

42. Pierre M. Fortier. Lieutenant M.D. Stating that he has received 1200 acres of land, and praying for 1800 acres in addition, with family lands, having a wife and four children. Not recommended.

43. Robert Franklin. Recommended for 100 acres in addition, if not granted before.

44. Alexander Fletcher. Praying for a lot in the town of Newark. Recommended to be granted if not granted before.

45. William Forsyth. Recommended for 200 acres, if not granted before.

46. John Gould. Recommended for 200 acres, if not granted before.

47. Enos Griffith. Recommended for 200 acres, if not granted before.

48. Moses Gregory. Recommended for 200 acres, if not granted before.

49. Daniel House. Stating that he has received 300 acres of land, and praying for an addition thereto. Not recommended.

50. Christopher Hoffman. Recommended for family lands, if not granted before.

51. Salmon Hull. Recommended for 200 acres, if not granted before.

52. Michael Hesse. Praying for 300 acres family lands. The petitioner must produce certificates of his being entituled to family lands.

53. Edward Wright. Praying for a lot in the town of York. Recommended for a town lot.

54. Sarah Howard. Praying for 200 acres of land. Recommended.

55. William Hodgkinson, late Butler's Rangers. Stating that he has received 200 acres of land, and praying for 100 in addition and 200 in right of his wife, the daughter of a loyalist (U.E.). Discharge and certificate wanted.

56. John Hayes. Recommended for 100 acres and a town lot, if not granted before.

57. Isaac Horning. Stating that he occupies lots 9 and 10 in the township of Barton, that his name is inserted in the plan thereof for said lots, but has not received certificates for the same, and praying to be confirmed therein. Recommended that assignments may issue, if his allegations are true.

58. Peter Horning. Praying for 500 acres family lands. The petitioner must produce a certificate of his being entituled to family lands.

59. William Hoff. Recommended for 200 acres if not granted before.

60. George House. Recommended for 400 acres in addition, but not at Long Point, if not granted before.

61. David Jones. Praying for 300 acres family lands. Certificate to be produced.

62. John Innes. Praying for 200 acres of land. Recommended, if not granted before.

63. Jeremiah Johnson. Stating that he has received 200 acres of land in the township of Clinton, which from situation will not admit of cultivation, and praying for an addition thereto. The petitioner may exchange his lot.

64. William Keeler. Recommended for 200 acres if not granted before. .

65. Christian Hendrick. Praying for 200 acres of land at Long Point Settlement. Recommended to be granted anywhere but at Long Point and York.

66. Daniel King. Recommended for 200 acres if not granted before.

67. Hammon Lawrence. Recommended for 200 acres if not granted before.

68. Levi Lawrence. Recommended for 200 acres if not granted before, but not at Long Point.

69. Heirs of Capt. Robert Lottridge. Stating that their late father served as Captain in the Indian Department during the American War, that he located but a small portion of the lands allowed by His Majesty to officers of his rank, that even that portion is usurped by persons pretending claims which do not exist, praying to be heard before Council that their father's right may be asserted and that his proportion of land may be made up. To lie over until a Chief Justice arrives.

70. William Lee. Recommended for 200 acres if not granted before.

71. Lawrence Lemon. Stating that he has received 200 acres of land and praying for 200 in addition. Not recommended.

72. William Lemon. Recommended for 200 acres, in right of his wife, if not granted before, on producing the required certificate.

73. Zebulon Landon. Praying for 200 acres of land at Patterson's Creek. Recommended, but not at Patterson's Creek.

74. Amos Manwell. Recommended for 200 acres if not granted before.

75. John McKarrley. Praying for a lot in the town of Newark. Recommended, if none granted before.

76. James McMullen. Recommended for 200 acres if not granted before.

77. Robert McLean. Stating that his lot 6 in the 4th concession of the township of Yonge is a continued swamp, and praying to be allowed to exchange the same or to receive an addition thereto. Recommended for liberty to exchange his lot.

78. Henry Murney. Recommended for 400 acres if not granted before.

79. James McNabb. Recommended for 200 acres if of age.

80. Simon McNabb. Recommended for 200 acres if of age.

81. Chichester McDonell, late Lieut. Butler's Rangers. Stating that he has received 500 acres of lands, and praying that the remainder may be located to him in Whitby, or elsewhere. The petitioner will of course be accommodated when the Surveyor General can find vacancies, as none of Colonel Butler's Corps can claim settlements in Whitby.

82. Lewis Mabee. Stating that he is administrator to the estate of the late Patrick Conway, formerly of Butler's Rangers, that said Conway received only 200 acres of land, and praying that the remaining 100 acres may be granted to him. Recommended for 100 acres in addition for himself. None can be granted on the principle of the petition.

83. William McClennan. Stating that he has been settled since the year 1783 on a piece of land lying between the garrison line and the town of Newark, and between the land of the Hon. Peter Russell and the River Niagara, which makes a gore, and praying that the said gore may be granted to him. Recommended to grant as much of his improvements as fall without the reserve.

84. Rebecca Metsler. Recommended for 200 acres if not granted before.

85. Noah Millard. Recommended for 200 acres if not granted before.

86. James McLaughlin. Recommended for 100 acres in addition if not granted before.

87. Alexander McDonell, late corporal, Queen's Rangers. Stating that he has received 200 acres of land, and praying that the proportion given to corporals may be made up to him, that such quantity as his wife (the daughter of a loyalist) is entitled to be given, and that the remainder of his father's military lands be made up to him, having only received 100 acres as a private in the late 84th Regt. Recommended for 200 acres to complete his military lands, if not granted before, and 200 acres in right of his wife (the daughter of a loyalist),

and the lands due to his father, if not granted before, upon producing certificates of the facts alleged.

88. Jacob Misener. Recommended for 200 acres if not granted before.

89. John Misener, Senior. Praying for 200 acres family lands. Recommended for family lands if not granted before.

90. Peter Martin. Recommended for 300 acres if not granted before.

91. Abraham Masecer. Recommended for 200 acres if not granted before.

92. James Newkirk, late of Butler's Rangers. Stating that he has received 200 acres of land and praying for an addition thereto. Recommended for 100 acres on producing his discharge.

93. Cornelius O'Neill. Stating that he has received certificates for 300 acres in part of his own land and for his wife and five children in the township of Bertie, but that his house and improvements are on the broken fronts and on an adjoining lot (No. 5 in the 2nd concession) for which he has not received assignments, and praying that the same may be confirmed to him. Recommended to grant the prayer of the petition if practicable.

94. Epenetus Owen. Recommended for 200 acres if not granted before.

95. Peter Plate. Praying for 200 acres of land in right of his wife, the daughter of a loyalist. Certificate wanted.

96. Samuel Paterson. Recommended for 200 acres if not granted before.

97. Eleanor Palmer. Praying for leave to sell spirituous liquors within the lines of the garrison of Fort Erie. Does not appear to concern the granting of lands.

98. Benjamin Pickard, late of Butler's Rangers. Stating that he has received 100 acres of land and praying for an addition thereto. Recommended if not granted before.

99. Joseph Palmer. Praying for land upon the terms and conditions expressed in His Excellency's Proclamation bearing date 7th February, 1792. Recommended if of age, and not granted before.

100. John Palmer. Praying for land upon terms and conditions expressed in His Excellency's Proclamation bearing date 7th February, 1792. Recommended, if not granted before.

101. J. B. Rousseaux. Stating that he served during the late war as an Indian Interpreter, that he has received 500 acres of land, and praying for such addition thereto as may be deemed meet. Referred to His Excellency.

102. Jesse Rice. Recommended for 200 acres if not granted before.

103. Caleb Reynolds. Recommended for 200 acres in right of his wife, if not granted before.

104. James Rogers. Recommended for 200 acres if not granted before.

105. Sarah Robins. Recommended for 200 acres if not granted before.

106. Henry Skinner. Land Board certificate for 200 acres in the Home District. Referred to the Surveyor General to be granted in Windham if there is room.

107. Leo Stinehoff. Recommended for 200 acres if not granted before.

108. John Smith, cooper. Praying for family lands for a wife and six children. Certificate wanted.

109. Caleb, Richard, and Samuel Swayze. Recommended for 200 acres each, if of age and not granted before.

110. Lieut. Alexander Stewart. Stating that he has received 500 acres of land in the Province of New Brunswick, and praying that 1000 acres may be granted to him in this Province. Recommended that petitioner's lands may be made up to him, the location left to the Surveyor General.

111. Andrew Stinehoff. Magistrate's certificate for 200 acres. The magistrate's certificate to procure him 200 acres anywhere but at Long Point or York.

112. Henry Smith. Praying for 250 acres family lands. Certificate wanted.

113. Mary Slingerland, widow of Benjamin Van Every, late serjeant in Butler's Rangers. Praying that her husband's proportion of lands may be allotted to her. Not recommended.

114. Peter Sheufelt. Recommended for 200 acres if not granted before.

115. Abel Stevens. Stating that half of the townships of Bastard and Kitley has been granted to him and praying for the remaining half. Not recommended.

116. John Stevens, Junior. Recommended for 200 acres if not granted before.

117. John Steel. Recommended for 200 acres, if of age and not granted before.

118. Capt. D. W. Smith, 5th Regt. Praying for 3000 acres of land. The Committee beg leave to recommend that the prayer of this petition be granted on condition of the petitioner's actually settling in this Province.

119. Jacob Smith. Stating that he came into this Province in the year 1788 with a wife and eleven children, that he has received 200 acres of land for himself and 400 acres for his family, and praying for an addition thereto. Recommended to be completed, if not received before.

120. Aaron Stevens. Recommended for 200 acres in addition.

121. Sarah Swayze, daughter of John Secord, Senior, a loyalist (U.E.), praying for 200 acres of land. Certificate wanted.

122. Thomas Stewart. Stating that he has a wife and six children, that he has received a lot in the town of Newark and one in the township of Ancaster, and praying for an addition thereto. Wants the certificate.

123. Robert Thompson. Recommended for 200 acres if not granted before.

124. Robert Tait. Praying for 200 acres and a town lot in Newark. Recommended, if not granted before.

125. James Thompson. Praying for a lot in the town of Newark. Recommended, if not granted before.

126. David Tuttle. Stating that he is settled on and has improved lot 18 front of Walpole, and praying for said lot for himself, and lot 19 for his father, Israel Tuttle. Recommended to be confirmed in lot 18.

127. Nathaniel White. Stating that he has received a magistrate's certificate for 200 acres of land in the county of Lincoln which he has not located, and praying that the same may be assigned to him in the Settlement of Long Point. Not recommended.

128. Benjamin Wilson. Recommended for family lands if not granted before.

129. Thomas and Mary Welch. Praying that lot 24 in the 1st concession of the township of Humberstone be confirmed to Ephraim Cole Mitchel, grandson of Hannah Mitchel, the mother of the above mentioned Mary Welch, which the said Hannah Mitchel bequeathed before her death to the said Ephraim Cole Mitchel, and that lot 23 in the said concession and township be granted to said Mitchel in addition. If the petitioners will send the assignment to the Attorney General a deed will issue in course.

130. Malcom Wright. Praying for lot 17 in the town of York, in the rear of King Kendrick's. Recommended for a town lot.

131. Henry Weldon. Recommended for 200 acres, if not granted before, but not at Long Point.

132. Conrad Wier. Recommended for 200 acres if of age.

133. Henry Warren. Recommended for 400 acres if not granted before.

134. John Warren, Junior. Recommended for 400 acres if of age.

135. Samuel Van Every. Recommended for 200 acres to complete his military lands, if not granted before, and 200 acres in right of his wife, on producing the required certificate.

136. Adam Vrooman. When the petitioner's children are of age they will receive land in their own right.

137. Henry Van Every. Recommended for 200 acres, if of age and not granted before.

138. John Young of Crowland. Recommended for 200 acres, if of age and not granted before.

139. William Walker. Stating that he has received for himself and family, consisting of a wife and ten children, 1200 acres of land and praying for an addition thereto. If the petitioner's children are of age they will receive land in their own right.

140. Jacob Bougener. Stating that he has received 300 acres of land in the township of Willoughby, that he has a wife and four children, and praying for an additional quantity and family lands at Long Point. Certificates wanted.

141. James Clark, barrack master. Praying for four town lots in Newark for his four children, being following vacant lots, viz: 286, 285, 320 and 319. Inadmissible.

142. Francis Waddle. Praying for a town lot in Newark. Recommended, if not granted before.

143. Charles Wilson. Stating that he purchased 250 acres of land opposite to the Falls of Niagara, that in front of said land there is a mill seat which is a government reserve, and praying that the same may be granted to him, from the top of the bank to the water side. Referred to His Excellency.

Petitions read on the 13th July, 1796:

1. John Secord, Senior. Praying for a tract of land on the peninsula of Long Point. Recommended for 200 acres, but the location prayed for referred to His Excellency.

2. Jeremiah Tuttle, of the township of Bertie. Stating that he has a wife and three children and has only received 200 acres of land in the above township, which he has considerably improved, having been in the Province nine years and taken the oaths, etc., and praying for an additional two hundred acres. Not recommended.

3. David and William Bruce. Stating that on the 14th Sept., 1784, they were located by Mr. Patrick McNiff in a lot of land, now forming a point containing about 120 acres and situated between the lands of Donald McMullen and Alexander Bruce on the south bank of the middle branch of the River aux Raisins, in the township of Cornwall, which lot they immediately began to improve, that some time subsequent thereto the said McNiff located Lieut. William Fraser in the said lot and built a house thereon; and notwithstanding the said lot was confirmed in the year 1787 to petitioners by John Collins, Esq., Deputy Surveyor General of Lower Canada, in the presence of several gentlemen, still said lot is occupied by Angus Fraser, brother to the said William Fraser. Praying that the name of Lieut. Fraser may be erased off the plan of the said township and the names of the petitioners inserted thereon. The parties to produce their certificates and may appear at a future period.

4. Thomas Burton, late in the 8th Regiment of Foot. Praying for 300 acres of land, and stating that he held a ticket from Philip Fry for three lots, which is lost or mislaid. Ticket and discharge wanted.

5. Isaac Blosdoll. Recommended for 200 acres if not granted before.

6. Dennis Burgiss. Stating that he has a wife and ten children, that he has never received any lands, and praying for a grant of some of the vacant lands of the Crown. Recommended for 200 acres if none granted before.

7. George Bradshaw. Recommended for 200 acres for himself. Certificate wanted for family lands.

8. John Becker, late private in Butler's Rangers. It appearing from the papers annexed that the petitioner intends to sell his lands, it is presumed he does not mean to become a settler. The Committee do not recommend therefore the prayer of the petition.

9. Lieut. Andrew Butler, late of Butler's Rangers. Stating that he has located 800 acres of land and praying for the remaining 1200, with the addition of 200 for Lord Dorchester's bounty. The petitioner's land to be made up two thousand acres.

10. Mrs. Anne Butler. Stating that she is the daughter of Lieut. Lewis Clement, and praying for such quantity of land as may be deemed meet. Certificate wanted.

11. Agnes Brown. Stating that her husband, John Brown, served His Majesty many years in the 60th Regt., that after his discharge therefrom he settled in the township of Thorold on lots 259 and 260 and on lot 1, 14th concession of the township of Pelham, which he did with consent of the Land Board before the lands were surveyed, that previous to his death he applied for a grant thereof, which application has not to your petitioner's knowledge passed the Council, and praying for a grant of 300 acres in behalf of herself and three children to cover the lands before mentioned, which are considerably improved. Recommended to grant the prayer of the petition, if not done before.

12. Martin Bogart, late corporal, Delancey's Corps. Praying for 400 acres of land. Recommended for 400 acres if not granted before.

13. Bower Slason. Praying for 1000 acres of land for himself, and 200 acres for each of his three sons, William, Henry and Jesse Slason, at the Long Point Settlement. It appears that the petitioner has already received lands.

14. Peter Colerick. Praying to be confirmed in four lots which have been assigned to him by the Land Board. Referred to the Surveyor General to be confirmed, if proper.

15. Elihu Cornwall. Praying for 200 acres of land on the River Thames. Recommended, if not granted before.

16. Francis Cornwall. Praying for 200 acres of land for his youngest son, Sherman Cornwall. Recommended if of age and not granted before.

17. Nicholas Cornwall. Praying for 200 acres of land on the River Thames. Recommended, if not granted before.

18. Edward Carscallen. Praying for 1400 acres of land in the Midland District in part of 2000, to which he is entitled as a reduced Lieut. To appear and produce his commission.

19. Luther and Mary (Patience) Cooley. Stating that the said Mary's late uncle and brother served as private soldiers in the King's Rangers, that they never received any lands, and praying that their case may be taken into consideration and that such quantity of land as may be deemed meet may be granted to the said Luther and Mary (Patience) Cooley. Not recommended for want of further information.

20. Adam Conkle. Recommended for 200 acres if not granted before.

21. Robert Camp. Recommended for 200 acres if not granted before.

22. John Caldwell. Praying for 300 acres of land. Recommended for 200 acres of land in the Settlement of Long Point.

23. Joseph Corwin, Senior. Recommended for 400 acres of land as family lands.

24. Catherine Everingham, widow of James Everingham, late of the Jersey Volunteers. Stating that her late husband was settled on 200 acres of land in the township of Willoughby, but never received a certificate, that she has two small children by the said James Everingham, and praying for a grant of 400 acres of land. Recommended that one hundred acres be granted to the heirs of James Everingham.

25. Peter Counsellor, late private, Butler's Rangers. Stating that he never located any land and praying for 300 acres in the township above the Delaware Village on the Thames. Recommended to be confirmed in 300 acres if not granted before.

26. Henry Dachsteder. Stating that he never received family lands. Recommended for family lands.

27. Timothy Desmond, late private, 84th Regt. Stating that he has a wife and family and praying for 600 acres of land on the River Thames. Recommended for 300 acres, including former grants.

28. Richard Decker. Praying for 200 acres of land in the Settlement of Long Point. 200 acres if none has been granted before.

29. Samuel De Reimer. Stating that he has received an Order of Council for 1000 acres of land and praying for lot 42 in Yonge Street containing 200 acres. Recommended for 200 acres as part of the 1000 acres granted him under the Order of Council dated 14th June, 1794, if he becomes a resident within this Province but, the petitioner not coming within the description of persons proposed to be settled on Yonge Street, the Committee cannot recommend him for the lot prayed for.

30. Eli Edmonson. Praying for a 200 acre lot on the River Thames. Recommended for 200 acres if not granted before.

31. John Fanning. Stating that he has received 200 acres of land and praying for an additional quantity. Not recommended.

32. Martin Freileigh. Stating that he got a certificate from the Land Board for the Midland District for 700 acres of land, of which he has received but 200, and praying for the remaining 500. Referred to the Deputy Surveyor of the District to be completed.

33. James Fraser, of Detroit, merchant. Praying for 1200 acres of land. Recommended for 1200 acres, provided that he comes within this Province to reside.

34. Captain Fulton, Thomas C. Drew and associates. Stating that in the year 1793 they received an Order of Council to settle the township of Huntingdon, to effect which they have gone to a great expense, that they will give ample security to perform all the terms and conditions which it may be deemed necessary to stipulate, praying to be informed what number of families are necessary to complete the settlement of said township, and within what period of time they are to be settled thereon, and that in the meantime their claims as original grantees may remain open. The township of Huntingdon having been declared to be vacant by His Excellency the Lieut. Governor's Proclamation bearing date the 25th of May, 1796, the Committee recommend to Your Excellency not to

grant the prayer of this petition as no reasons appear to be adduced therein which entitle the petitioners to a new appropriation.

35. Josiah Gilbert, late a non-commissioned officer in the King's American Regiment. Stating that he received 200 acres of land in the Province of Nova Scotia, and praying for 400 acres at the Long Point Settlement. Recommended for 200 acres of land in Long Point Settlement.

36. James Field. Praying for 400 acres of land. Recommended for 200 acres of land.

37. Michael Gander. Stating that he came into the Province in the year 1788 with two children, that he has received 200 acres of land and praying for an additional quantity. Recommended for 100 acres of family lands if not granted before.

38. Andrew Haverland, late of Butler's Rangers. Stating that he came into the Province in the year 1788 with a wife and three children, that he has only received 100 acres of land as part of his military lands, and praying for 200 acres as a disbanded Ranger and 200 acres for his family. Recommended for 200 acres for self and 200 acres for family if not granted before.

39. Samuel Hammel. Stating that he came into the Province in the year 1788 with a wife and one child, that he has received 200 acres of land and praying for 200 in addition. Certificate wanted for family lands.

40. Mathew Howell, late serjeant, Orange Rangers. Stating that he has settled on lot 6 in the broken front township of Murray, praying to be confirmed therein and for lots 9 and 10 in said township in addition. Recommended for 200 acres in Murray if not granted before.

41. Abraham Hagerman. Praying for lot 33 in the township of Hamilton. Referred to the Deputy Surveyor of the Midland District.

42. William Hunter. Stating that he has a wife and seven children, and praying for a town lot at York and 200 acres of land. Recommended for 200 acres of land, and referred to the Surveyor General for location.

43. John Hainer, late of Butler's Rangers. Stating that he has a wife and seven children, that he has received 400 acres of land and praying for an additional quantity at Long Point. A certificate must be produced.

44. Jacob Hoffman, late of Jessup's Rangers. Stating that he has never received any land, that he is married to the daughter of a loyalist, and praying for 300 acres for himself and 200 in right of his wife. Recommended for 300 acres if not granted before. Certificate wanted for family lands.

45. Dorothy Hutt, daughter of a loyalist (U.E.). Praying for 200 acres of land. Recommended if none has been granted in right of his wife.

46. George Havens. Praying for 200 acres of land at the Long Point Settlement. 200 acres if none granted before.

47. Thomas Harris, late a private of Delancey's Dragoons. Stating that he has received 184 acres of land and praying to have his military proportion completed. Recommended to complete his military lands on producing certificate of his service.

48. James Hurst. Stating that he is a practitioner in physic, that he is married to the daughter of a loyalist, that he has never received any land, and praying for such proportion for himself and family as may be deemed meet. Recommended for 200 acres for himself and 200 in right of his wife, the daughter of a loyalist.

49. John Hill, Senior. Stating that he came into the Province in the year 1787, and was desired by Colonel Hunter to locate lands on Black Creek, and praying to be confirmed in 400 acres which were allowed for himself and family

by Colonel Hunter. Referred to the Surveyor General to be confirmed if proper on producing the certificate of Mr. Burch.

50. James Haslip, late corporal, Butler's Rangers. Stating that he has received 300 acres of land, that he has a family, and praying for an additional proportion of land. Recommended for 100 acres if not granted before.

51. Thomas Hind. Stating that he has a wife and five children, that he has received 200 acres of land and praying for an additional quantity. Has already received lands.

52. Henry Walker. Stating that he has never received land, and praying for some in the Settlement of Long Point. Recommended for 200 acres of land.

53. Joseph Johnson. Praying for a lot of land on the River Thames. Recommended if none granted before.

54. Conrad Johnson, late private, Butler's Rangers. Stating that he has a wife and four children, that he has received 200 acres of land and praying for an addition thereto. Recommended for 100 acres in addition, on producing discharge.

55. Captain Joseph Jessup. Stating that he has received certificates for 900 acres of land, that his name is inserted on the plan of the township of Yonge for 2100 more, which completes his military lands, that he has not received certificates for said 2100 acres, and praying that the Surveyor General may be directed to assign him the said lands. Referred to the Surveyor General to comply with the prayer of this petition.

56. Captain John, a Mohawk. Enclosing the Minutes of Council dated 1st April, 1793, ordering him 3000 acres of land. Referred to the Surveyor General to be accommodated where practicable.

57. Dorcas Kendrick. Praying for lot 17, 5th block, 3d range in the town of York. Granted by order of His Excellency.

58. Robert Kerr. Stating that he has received 2200 acres of land for himself, his wife and five children, and praying for 450 in addition. It does not appear that the petitioner has claim to more lands than 2200 acres in right of himself and Mrs. Kerr, the daughter of a loyalist.

59. Thomas Kirgan. Praying for 200 acres in the township of York and a town lot in the town of York. Recommended for 200 acres and a town lot in the township of York if he resides.

60. Jeremiah Kettle, late Butler's Rangers. Stating that he has received 250 acres of land, that he has a wife, and son (Jeremiah Kettle, Junior, of age) and praying for 250 more for himself and wife, and 200 acres for his said son. Military and family lands to be made up on producing his discharge and certificate.

61. George Levich, Minister of the German Society. Praying for land. Recommended for 600 acres and referred to the Surveyor General for location.

62. David Lint. Praying to be confirmed in 200 acres of land granted to him by the Land Board for the Midland District. Not recommended.

63. Job Lodor. Praying for 200 acres of land. Recommended for 200 acres if not granted before.

64. Peter Lawr. Praying for 200 acres of land for himself and 200 in right of his wife, the daughter of a loyalist. Recommended for 200 acres for self, if not granted before. Certificate for wife wanted.

65. Samuel Letch. Recommended for 200 acres if none has been granted before.

66. John McMicking, late of Butler's Rangers. Praying for land. Discharge wanted.

67. John Mulholland, private, Queen's Rangers. It is presumed petitioner will be hereafter provided for at Toby Cock.

68. William McClellan. Stating that he has received a grant of 500 acres of land in the county of Lincoln, and praying that the same may be located to him in the Long Point Settlement where his sons wish to settle. Recommended if they actually reside on the lands prayed for.

69. John McDougal, late private, Royal Rangers. Stating that he has received 100 acres of land and praying for an addition. Recommended for 200 acres if not granted before.

70. Catherine McDonell, daughter of the late Captain Allan McDonell, 84th Regiment. Recommended for 1200 acres if not granted before.

71. Zalmon Mitchel. Stating that his father joined the British Forces at the commencement of the late war and was killed in the service, that lot 32 and the east half of lot 34 in the township of Augusta were assigned to the heirs of his said father, that petitioner is the only heir, and praying to be confirmed in said lands. Referred to the Surveyor General to be accommodated if practicable.

72. Lewis Mabee, late serjeant, Butler's Rangers. Stating that he has received 500 acres of land and praying for family lands for his wife and five children. Recommended for family lands if not granted before.

73. Peter McDonell, serjeant, Butler's Rangers. Stating that he has never received lands, that he has a wife and family, and praying for 500 acres of land. Discharge wanted.

74. James Mengis, late private, 26th and 29th Regiments. Recommended for 300 acres if not granted before.

75. Thomas Medcalf. Recommended for 200 acres if not granted before.

76. John McDonell, late corporal, Butler's Rangers. Stating that he has a wife and six children, that he has never received lands for himself or family, and praying for 650 acres of land. Certificate for family lands wanted.

77. Finlay Malcom. Recommended for 200 acres in addition.

78. John Muckle, late of Jessup's Corps. Stating that he has a wife and five children, that he never received any lands for himself or family, and praying for 300 acres for himself and 300 for his family at Long Point Settlement. Recommended for 300 acres and family lands if not granted before.

79. James Maracle, late Butler's Rangers. Recommended for 300 acres if not granted before on producing discharge.

80. James McGarvin. Praying for lands in right of his wife, the daughter of a loyalist. Recommended for 200 acres if not granted before. Certificate wanted.

81. John Misener, Junior. Recommended for 200 acres if not granted before.

82. John McClellan. Recommended for 200 acres if not granted before.

83. Joseph Peters, late serjeant, Butler's Rangers. Praying for his proportion of land as a serjeant, and family lands for a wife and eight children. Recommended to make up his lands to 500 acres as a serjeant if not already done.

84. John Pinching. Recommended for 200 acres if not granted before.

85. Lieut. John Platt, late Rogers' Rangers. Stating that he has received 600 acres of land and praying for 1400 in addition in the county of Leeds. It appearing that the petitioner does not reside in this Province, the Committee cannot at present recommend the prayer of the petition.

86. Robert and Ann Perry. Stating that they received from the Land Board at Kingston two certificates for 200 acres each, and praying to have their lands assigned to them in the township of Haldimand. Referred to the Deputy Surveyor of the Midland District.

87. Jonathan Pettit. Stating that he purchased an improvement from one Bemis, who received a verbal permission from A. Pierce to settle on the western-most township granted to him west of the Grand River, and praying for 400 acres in the said township. Recommended for 400 acres if not granted before, but the purchase appears to be irregular and cannot be permitted without further enquiry.

88. Abraham Powell. Recommended for 200 acres of land in the Settlement of Long Point.

89. Thomas Rowe. Praying for 1000 acres of land for himself and family. Not recommended.

90. Frederick Rowe, late Butler's Rangers. Stating that he occupies lot 12 in the 1st concession and lots 12 and 14 in the 2nd concession of the township adjoining Fort Erie Township but, having no certificates for said lots, prays the same to be confirmed to him. Recommended to be confirmed as petitioner appears to have occupied the lots by proper authority.

91. James Russell. Stating that he has received 200 acres of land at Long Point and praying for an additional quantity. Not recommended.

92. William Rice. Praying for 200 acres of land at Long Point. Recommended for 200 acres of land.

93. John Ross, late serjeant, 26th Regiment. Recommended for 500 acres as a serjeant.

94. John Scram. Recommended for 200 acres, including family lands, if not granted before.

95. John Secord, Junior. Recommended for 200 acres including family lands.

96. Lieut. David Sutherland, late Butler's Rangers. Recommended to make up his military lands in the county of Lincoln.

97. John Secord, Senior, late Butler's Rangers. Recommended for 200 acres as family lands.

98. Frederick Sager, late Butler's Rangers. Stating that he has received 200 acres of land, that after he was discharged he settled in this Province with a wife and seven children, and praying for 400 acres family lands and 100 in addition for himself. Recommended for 100 acres for himself, and 400 acres to complete his family lands.

99. Daughters of John Smith of Ancaster, a loyalist (U.E.). Stating that Eleanor, Hannah and Elizabeth Smith are of the age of 21 years, that Lydia and Anna Smith are under that age, and praying for 200 acres of land each. Eleanor, Hannah and Elizabeth recommended for 200 acres each.

100. John Soper. Praying for 200 acres of land at Long Point. Recommended if not granted before.

101. Titus Simons, Junior. Praying for a portion of land. Recommended for 300 acres of land if it appear he has had none before.

102. Philip Stedman, Junior. Praying for 1200 acres of land. Recommended for 600 acres if he resides and no lands have been granted before.

103. Simon Speck, late Butler's Rangers. Praying for 300 acres of land in the township above the Delaware Village on the Thames. Recommended to be confirmed in 300 acres.

104. Samuel Sheldon. Stating that he has received 200 acres of land and praying for 200 in addition, having a wife and four children. Not recommended.

105. John Stacy. Stating that he served four years in the Royal Navy, and five years in the dock yard at Detroit, that he has a wife and four children,

that he has received 350 acres of land, and praying for family lands. Recommended for 100 acres of land to complete him.

106. Roger Stevens. Stating that he has a wife and ten children and praying for 1200 acres of land. Recommended for 400 acres if none granted before.

107. Thomas Stoyell. Praying for a town lot at York and such quantity of land as may be deemed meet. Recommended for No. 15 in the town of York, and 200 acres if not granted before.

108. Otheriel Smith. Recommended for 200 acres if not granted before.

109. Hazleton Spencer and Nicholas Hagerman. Stating that encouraged by Major Holland, Surveyor General of the Province of Quebec, they located lands in the village of township 4, otherwise Adolphus Town, commencing at lot 25 and extending to lot 36 in the 7th concession and running northward including those numbers until the northernmost bounds of the 14th concession, and praying that the same may be assigned to them. To lie by till further information can be obtained.

110. Catherine and Nancy Ten Broeck. Recommended for 200 acres each if not granted before.

111. John Ten Broeck. Praying for a town lot in Newark. Recommended if none granted before.

112. George Turney. Praying for a lot in the town of Newark. Recommended if none granted before and if of age.

113. Anne Thompson. Recommended for 200 acres if not granted before.

114. Jemima Thompson. Stating that she is the daughter of Lieut. Lewis Clement and praying for lands. Certificate wanted.

115. Oliver Tiffany. Recommended for 200 acres if not granted before.

116. Lieut. John Turney. Stating that he has located 800 acres of land in the county of Lincoln, and praying to have the remaining 1200 assigned to him at Turkey Point on Lake Erie. Turkey Point is reserved for a town.

117. John Baptiste Tourneaux, of Detroit. Recommended for 400 acres upon his residing within this Province if not granted before.

118 Christopher Buckner. Praying for a lot of land to comprehend the lower mill seat on Patterson's Creek. The mill seat has been long promised to Mr. Francis.

119. Mary Anne and Elizabeth Vanderlip. Stating that their late father served in Butler's Rangers, that he never received any lands, and praying to have his proportion assigned to them, and such quantity in their own right as may be deemed meet. Recommended for 200 acres each in their own right, and 300 acres between them out of respect to the recommendations accompanying the petitioners' petition.

120. Peter Wintermute. Recommended for 200 acres in addition in consequence of his improvements and recommendations.

121. Andrew Westbrook. Stating that he is son to Anthony Westbrook, who served with Capt. Brant during the American War, and praying for 400 acres of land, having never received any. Recommended for 300 acres on producing a certificate for service.

122. William Williams, Junior. Praying for 200 acres of land in the township of Haldimand. Recommended for Haldimand when surveyed.

123. William Williams, Junior. Praying for lot 13 in the township of Haldimand. Wants a recommendation.

124. Robert Wier. Stating that he has a wife and eight children, that he has received 200 acres of land, and praying for 1000 in addition. Not recommended.

125. Peter Walker. Stating that he has received a lot in the Long Point Settlement, and praying for the lot in his rear, it being vacant. Not recommended.

126. Allan Cameron Wilmot. Stating that he is the son of a British officer, and praying for such quantity of lands as may be deemed meet. Recommended for 400 acres if of age.

127. John Isaac and Ralph Walker. Recommended for 200 acres each.

128. Isabella Murray, widow of Lieut. Murray, late 84th Regt. Stating that her late husband received only 700 acres of land, and praying that the remaining 1300 acres may be granted to her daughter, Elizabeth Murray, and 1200 acres or such quantity as may be deemed meet to petitioner. Recommended that the lands due to Lieut. Murray be granted to his heirs, and the petitioner is recommended by the Committee for 600 acres in consideration of the distressed circumstances in which she has been left.

Petitions read on the 14th July:

1. Joel Westbrook, late of Butler's Rangers. Praying for lands as a military claimant. Recommended for 300 acres upon producing his discharge.

2. George Darby. Praying for lands as the son of a loyalist, and for family lands for a wife and three children. Recommended for 200 acres if he has received none before, and family lands on producing the required certificate.

3. Lieut. Joseph Anderson. Stating that he has received 500 acres of land, and praying to have his proportion made up. It appears by the Quebec Book that he received 500 acres as a subaltern. Recommended that the prayer of the petition be granted.

4. David Adair. Stating that he has a wife and three children, that he has received 200 acres of land, and praying for 200 in addition. Wants the certificate.

5. Sarah Ashbridge, widow. Stating that she has five children and praying for 600 acres of land. Recommended for 200 acres.

6. Oliver Arnold, late Butler's Rangers. Stating that he never received any lands, and praying for 300 acres. Recommended to be made up 300 acres.

7. Elias Alley. Stating that he has received a 200 acre lot in the township of Sidney which cannot be cultivated, and praying for a lot in the township of Murray. He must produce a certificate to prove the within assertion.

8. Elisha Alger. Praying for 200 acres of land in Marysburgh east of the Carrying Place. Recommended for 200 acres of land.

9. John Ashbridge. Praying for a town lot at York. Recommended for a lot in York.

10. Lambert Acor, late Butler's Rangers. Stating that he is married to the daughter of a loyalist (U.E.), that he has received 200 acres of land, and praying for 100 in addition and 200 in right of his wife. Recommended for 100 acres for himself and 200 acres for his wife, the daughter of a loyalist (U.E.).

11. William Bond. Praying for lot 9 or 13 in front in the town of York. Recommended for a town lot.

12. Thomas Barry. Praying for lot 20 in the 2nd range of the town of York, and 200 acres of land on Yonge Street. Recommended a town lot and 200 acres.

13. William Berczy. Praying for lot 9 in the town of York. Recommended for a front lot on the conditions.

14. George Bowman. Stating that he has been a long time settled on lots 29, 30, 31 and 32 in Stamford but, having never received certificates, prays to be confirmed in the said lots, and for 200 acres in addition to complete his own and

family lands, consisting of a wife and seven children. Recommended to be secured in the lands he is entered for on account of himself and family.

15. Nathan Brisco. Praying for lots 13 and 14, 5th concession of Ernest Town. It is apprehended there is no vacant land in Ernest Town.

16. Roger Bates. Praying for an answer to a petition which he presented in May last. Settled.

17. Arent Bradt. In behalf of his grandson, Cornelius Ryckman, Junior. Stating that the late Land Board of the Home District granted to Cornelius Ryckman, Senior, 200 acres of land, and 100 acres for his family in the township of Barton, that the said Cornelius Ryckman, Senior, has long since deserted his family, which petitioner now supports, and praying that the aforesaid 100 acres may be secured to Cornelius Ryckman, Junior. The Committee want further information.

18. James Brown. Recommended for 200 acres if of age.

19. John Buffa, Surgeon of the 24th Regt. Praying for such quantity of land as may be deemed meet. Recommended to be granted when Mr. Buffa becomes an actual settler.

20. Philip Buck, late Butler's Rangers. Stating that he has a wife and eleven children, that he has received 400 acres of land, and praying for an addition thereto. The petitioner appears to be entitled to 300 acres in addition to complete his family lands.

21. Henry Bowman. Praying for a lot in the town of Newark. Recommended.

22. Lieut. John Bradt, late Butler's Rangers. Stating that he has received 1600 acres of land and praying for 400 in addition. Recommended that the petitioner's military lands may be made up to 2000 acres.

23. Robert Comfort. Stating that his late father, John Comfort, received a ticket from Major Campbell for 300 acres of land, which he considerably improved before his death but, having never received a certificate for the same, petitioner prays to be confirmed therein. Recommended to be confirmed.

24. John Chatterton, late Delancey's Corps. Recommended for 300 acres of land.

25. William Carl. Recommended for 300 acres if resident, and not granted before.

26. Henry Cnewt. Praying for 200 acres of land and a town lot in Newark. Recommended for 300 acres if not granted before.

27. Elizabeth Cockel, widow of George Cockel, late Butler's Rangers. Stating that her husband died in the year 1784 without receiving lands, that he left four children, and praying for 300 acres in right of her said husband, and 250 acres for family lands. Recommended that 500 acres of land be granted to the heirs of George Cockel if not before granted.

28. Gabriel Descoteaux. Not understood.

29. Benjamin Davis, late serjeant, Butler's Rangers. Stating that he has received lot 7 on the Humber and praying for the rear lots 7 and 6, in all 1000 acres. Recommended to be made up to 500 acres.

30. Thomas Dempsey. Praying for 400 acres of land in the township of Murray. Recommended for 200 acres if Mr. Aitken can settle him under his general instructions.

31. Mathew Dolsen, late a volunteer Butler's Rangers. Stating that he has a wife and two sons, and praying for a few hundred acres on the head of the plains near the fork on the River Thames, south side in the 2nd concession of the 2nd

township. Recommended that 200 acres may be granted to the petitioner in addition.

32. George Derby. Praying for a lot in the town of Newark. Recommended for a town lot in Newark.

33. Asa Dexter. Praying for lot 44, east side of Yonge Street. Recommended for lot 44, east side of Yonge Street, he complying with the conditions of obtaining it.

34. George Douglas. Praying for 200 acres of land at the Settlement of Long Point. Recommended for 200 acres of land.

35. Patrick Flannery. Praying for a town lot at York, and 200 acres of land. Recommended for a town lot, and No. 10, west side Yonge Street, on the usual conditions.

36. Jacob Frelick, John Frelick, and Zachary Frelick. Praying for 200 acres of land each in the township of Haldimand. Recommended that 200 acres of land may be granted to each of the petitioners if none has been granted before.

37. P. M. Fortier, Lieut. Marine Department. Stating that he has received 1900 acres of land, and praying for 1100 in addition to put him on a footing with Captains, which his rank entitles him to. The petitioner does not make his claim to a Captain's proportion of land appear substantiated.

38. Eleanor Fennell, wife of John Fennell, late of the Royal Yorkers, and daughter of Thomas Allen, a loyalist. Praying for 200 acres of land. On producing a certificate of the within fact, recommended that 200 acres of land be granted her, providing none has been granted before.

39. Archibald Fairfield. Praying for a water lot opposite to his house, No. 24, in the town of Kingston. Referred to the Deputy Surveyor, Mr. Aitkin.

40. Philip Force. Stating that he came into the Province in the year 1788 with his family, that he has received 200 acres of land, and praying for an addition thereto at Long Point Settlement. A certificate is wanting.

41. Ludovick Filker. Recommended for 200 acres.

42. Jacob Filker. Recommended for 200 acres.

43. John Filker. Recommended for 200 acres.

44. Joseph Filker. Recommended for 200 acres.

45. John Filker, Junior. Recommended for 200 acres.

46. George Gibson. Praying for lot 19 adjoining Jas. Kendrick's in the town of York for his son, George William Gibson. To lie over.

47. Frederick Gee. Stating that he has received 200 acres of land in Gainsborough, which he has improved, that he has also improved the adjoining lot, for which his name is entered although he has received no certificate, and praying for family lands. Recommended to confirm Major Campbell's certificate and 300 acres as family lands.

48. Charity Gray. Stating that she is the daughter of John Simonson of the late 84th Regt. and praying for lands as the daughter of a loyalist. Recommended for 200 acres of land upon producing a certificate of the petitioner being the daughter of a U.E. Loyalist.

49. Alexander Galloway. Praying for lot 10, 3rd concession of the township of York. Recommended for 200 acres of land.

50. Caleb and Burgey Gilbert. Praying for lots 19 and 20 in the 9th concession of Sidney, but should those lots have been previously granted, then the two nearest vacant lots. If the petitioners have certificates, the Deputy Surveyor of the district can locate them in the most convenient manner practicable.

51. Hugh Gilmore. Stating that his family consists of a wife and eight children, that three of his sons, Samuel, James and Hugh, are upwards of 18

years of age, and praying for an addition to lot 23 in front of the 4th township of Long Point Settlement for himself, and 200 acres to each of his said sons in said Settlement. Recommended for 200 acres for each of his sons if they are of age.

52. Richard Morden, Samuel Way, Martin Foster, Israel Tripp and John Howell, of Sophiasburg. Stating that they live on lots 22, 23, 24, 26, 21 and 20 in the 2nd concession of Sophiasburg, back of the land they now live on, as there was a promise of the Governor-in-Council of Lower Canada that the second concession should be given to the owners of the front land, and praying that if not already granted it may be confirmed to them. Not recommended as the Order-in-Council of Quebec is not produced.

53. Margaret Hamilton. Stating that her late husband was quarter (master) to the Queen's Rangers during the late war, that he never received any lands, and praying that his proportion may be granted to her. The Committee cannot recommend the prayer of this petition as the petitioner does not reside within this Province.

54. Joseph Heazlet. Praying for lands at Long Point. Recommended for 200 acres.

55. Peter Harris. Praying for lot 32, 1st concession in the township of Hamilton. Recommended for 200 acres of land in Hamilton.

56. Myndert Harris. Stating that he received a warrant for 800 acres in the township of Hope from W. Walton, and praying to locate No. 3, 1st concession, lot 15, 2nd concession, and lots 14 and 15, 4th concession containing 800 acres. The Committee is ignorant what powers Mr. Walton may possess to dispose of lands in Hope in such quantity, but they recommend the petitioner for 200 acres in Hope when he comes to reside in it.

57. Joseph Hunt, corporal, Queen's Rangers. Praying for lands. Referred to His Excellency.

58. Edward Hazel. Stating that he improved Capt. Bird's land opposite to the Isle aux Bois Blanc, that the King's Engineer has pitched upon said land as the most eligible spot for erecting a fort and town and has actually taken possession, that, in consequence, not only his crop for this year is lost, but also all his improvements, and praying for an equivalent. Referred to His Excellency.

59. Christopher Hagerman and family. Praying for 200 acres of land for himself and for each of his four sons, Christopher, Abraham, Isaac, and John Hagerman, in the township of Murray. Recommended for 200 acres each if of age, and if Mr. Aitkin can settle them under his general instructions.

60. Patrick Heron. Praying for a town lot in Newark. Recommended.

61. James House, late of Barton's Corps. Stating that he came into the Province in the year 1787 with a wife and four children, that he has received 200 acres of land, and praying for 350 acres in addition as family lands. Recommended for 100 acres for himself. The certificate for the family is wanted.

62. Major Edward Jessup. Praying for family lands for his son, Lieut. Jessup, and his daughter married to Mr. James Walker, Surgeon to the Canadian Volunteers. In consideration of the respectable recommendations adduced, Mr. Walker is recommended for 600 acres and referred to the Surveyor General.

63. John Jansen. Stating that he has located 200 acres of land in the neighberhood of Fort Erie, and praying for an additional quantity in the Settlement of Long Point. Recommended that 200 acres be granted to him in addition.

64. John Johnston. Stating that he has received 400 acres of land, 200 of which he has bought, and praying for an addition. Recommended for 200 acres in addition to what he has received.

65. Elias Jones. Praying for 1000 acres of land. Recommended for 200 acres of land.

66. William Kelly, Junior. Praying for 200 acres of land in the township of Murray. Recommended for 200 acres if Mr. Aitkin can settle him under his general instructions.

67. John Kelly. Praying for 200 acres of land in the township of Murray. Recommended if petitioner can be accommodated under Mr. Aitkin's general instructions.

68. J. H. Kahman. Stating that he has built on and improved lots 16 and 17 in the town of York, and praying to be confirmed in the same. Recommended for two lots understanding he has His Excellency's promise.

69. William Kelly. Stating that lot 23 in the 6th concession of the township of Thurlow, which has been assigned to him, is not improvable, and praying to have his lands assigned to him in the township of Cramahé, with such addition as may be deemed meet. He must produce a certificate to prove the within assertion.

70. Peter Long. Praying for 200 acres of land, and to be confirmed in a town lot at York on which he has built. Recommended for a town lot and 200 acres of land.

71. William Lemon. Stating that he has received 200 acres of land and praying for 200 in right of his wife, the daughter of a loyalist. Wants the certificate for his wife.

72. Richard Lawrence. Stating that he served as Lieut. of an independent company of militia in New Brunswick, and praying for lands and lot 18, rear division of block No. 5, first range in the town of York. Recommended for a town lot in York and 600 acres of land including what he may have already received.

73. John W. Meyers. In behalf of Tobias W. Meyers, Margaret Akerman and Leonard W. Meyers. Stating that they have received Land Board certificates for 200 acres of land each and praying to be confirmed in the same. Referred to the Deputy Surveyor of the Midland District for location.

74. Robert McKinlay. Stating that he has a wife and two children, that he has received 200 acres of land, and praying for an addition thereto. Not recommended.

75. Abner Miles. Stating that he has built on lot 13 in the town of York, praying to be confirmed therein, and for lot 14, in addition. Recommended for two lots.

76. Joel White Morris. Stating that he has received 200 acres of land, being the front of lots 25 and 26, in the township of Bertie, that his improvements fall in the rear of said lots, and praying for a grant thereof amounting to about 130 acres. Not recommended.

77. Colin McNabb. Praying for a front lot in the town of York. Recommended for a lot when the survey is extended.

78. Abraham Mattice, late Butler's Rangers. Praying for his proportion of land. Recommended for 300 acres.

79. John Muckle. Stating that he served in Jessup's Corps during the late war, that he has a wife and five children, that he never received lands, and praying for 300 acres and family lands. Recommended for 300 acres of land upon producing his discharge. The certificate for family lands wanting.

80. John Murphy. Stating that he served as drummer in Butler's Rangers, and never received any lands. Recommended for 300 acres of land upon producing his discharge.

81. James McDonell. Stating that he is the only surviving son of the late Allan McDonell, who drew pay as a subaltern officer during the late war without being attached to any corps, that on the reduction he was put on subaltern's half pay, and drew 500 acres of land, but dying in the year 1788 previous to the assignment of the additional bounty of lands, it still remains undrawn, and praying that 1500 acres may be assigned to petitioner in right of his father. Not recommended.

82. Joseph Senn, late serjeant, Butler's Rangers. Stating that he has received 300 acres of land, and praying for 200 in addition. Recommended for 200 acres to make up his military lands if not granted before. Referred to the Surveyor General to make the quantity granted to petitioner 500 acres.

83. Capt. James McDonell, late Royal Yorkers. Stating that he is married to the daughter of a loyalist, and praying for family lands, having six children. Mrs. McDonell will receive 200 acres of land on coming to reside within this Province.

84. Abner Miles. Praying for lot 21, west side, Yonge Street. Recommended to be granted.

85. John McKendrick, late 97th Regt. Stating that he has a wife and one child and never received any land, and praying for his own and family lands. Recommended for 300 acres if not granted before.

86. Michael McDade. Stating that he has been five years in the Marine Department, and praying for 300 acres of land on the River Thames. Recommended for 200 acres.

87. Robert McKinley. Praying for a town lot in Newark. Recommended.

88. Jeremiah Marsh. Stating that he has a Land Board certificate for 200 acres of land, and praying it may be assigned to him in the township of Murray on lot 6. Recommended to be granted if Mr. Aitkin can settle him under his general instructions.

89. Andrew Miller. Recommended for 200 acres of land.

90. John Muirhead. Recommended for 400 acres of land if he is of age.

91. Lieut. Allan McNabb, late Queen's Rangers. Stating that he has received 1000 acres of land, and praying for 1000 more in addition at Long Point, or where it may be deemed meet to locate him. Recommended the quantity to make up his military lands.

92. John Mathews. Praying for a back lot in the town of York. Recommended for a lot.

93. Parker Mills. Two petitions. Stating that he has received 100 acres of land, and praying for 200 in addition, and a back town lot at York. Recommended for 100 acres in addition, and a back town lot.

94. Thomas Mathews. Praying for 200 acres family lands, and a town lot at York. Recommended for a town lot, and 100 acres family lands.

95. Peter Misener. Stating that he has received 200 acres of land in the township of Thorold, that part of his improvements fall on a vacant spot adjoining thereto comprehending about 25 acres, and praying for 200 acres in addition including the said vacant spot. Recommended for his improvements if practicable, not exceeding the 25 acres more or less.

96. Joshua Smades and Stephen Meyrick. Praying for the lands from Mr. Burch's line below the rapids to one-half mile below the falls, and extending back to the front line of the improved land, to erect mills on. Referred to His Excellency.

97. Abraham and William Nellis, sons of Capt. Nellis, late Indian Department. Stating that they never received any lands and praying for such quantity as may be deemed meet. Recommended for 400 acres of land each.

98. Sherman Prout, late Butler's Rangers. Recommended for 300 acres if not before granted.

99. Lieut. Paxton, Marine Department. Praying for family lands for a wife and four children. Not recommended.

100. John W. Meyers. Stating that he is desirous of obtaining lot 4, in the 1st concession of the township of Thurlow which is reserved for the Indians, that he can get a lease of said lot from Indians for 999 years and praying to have the same confirmed. The Committee cannot recommend the prayer of this petition.

101. Charles J. Peters. Recommended to grant 600 acres to the petitioner.

102. George Porter, serjeant of militia. Praying for lot 20 in the 3rd concession township of York, and 300 acres more where it may be deemed meet to locate him. Not recommended.

103. George Porter. Praying for a back town lot at York. Recommended for a back town lot.

104. Daniel Pound. Stating that he served in the Engineer Department during the late war, that he has a wife and six children, and never received lands, praying a proportion for himself and family. Recommended for 300 acres of land.

105. W. D. Powell, Junior. Praying for a town lot at Newark. Recommended.

106. Jacob Quant, late Butler's Rangers. Stating that he received 200 acres of land, being lot 12, 3rd township south side of the River Thames, which lot being often intersected by the river in the side and towards the rear, reduces it to about one half of the quantity granted, the river forming the front and the side lines of the lot, but being very serpentine leaves some points of land, which points are cut off by the division line of lots 12 and 13, and there can be no communication between lot 13 and those points belonging to it, except by crossing over lot 12, that not having his proportion of lands, prays for a grant of those points joining to his lot and which have no communication with lot 13 except by crossing the water. Recommended to make up his military lands and the points if practicable.

107. Robert Rutter. Praying for 200 acres in the Settlement of Long Point. Recommended for 200 acres of land.

108. Margaret Rosbach, alias Gray. Stating that she is the daughter of Serjeant Grant, late 84th Regt. Praying for lands. Recommended for 200 acres of land upon producing a certificate of the petitioner being the daughter of a loyalist (U.E.).

109. Lewis Rosebush. Praying for 200 acres in the township of Murray. Recommended for 200 acres if Mr. Aitkin can settle him under his general instructions.

110. Artemas Ross. Stating that he has a wife and six children, and praying for 400 acres of land in the township of Murray. Recommended for 200 acres if Mr. Aitkin can settle petitioner under his general instructions and if not granted before.

111. John Stevens, Junior. Praying for 200 acres of land in the vicinity of Long Point. Recommended for 200 acres and referred to the Surveyor General.

112. Walter Slingerland. Two petitions. Praying for lot 282 in the town of Newark. Recommended if vacant.

113. Asa Schooley. Stating that he has received 200 acres of land, that he has a wife and six children, and praying for family lands. Recommended 350 acres family lands if not before granted.

114. Titus Simons. Stating that he has a wife and nine children, and praying for lands for himself and family. Recommended for 500 acres for himself and 350 acres for family lands if not granted before.

115. William Scantling. Praying for 200 acres of land for himself and 200 for his wife, the daughter of a loyalist. Recommended for 200 acres of land for himself, but it does not appear that his wife is the daughter of a U.E. Loyalist.

116. Samuel Sinclare. Praying for lot 14 in the 2nd range of the town of York. Recommended for a back town lot.

117. Jacob George Smith and Johannis Lott. Stating that they received Land Board certificates for 450 acres of land each, that they have located only 400 acres each, and praying that the remaining 50 acres may be assigned to each. Recommended for 50 acres to each of the two petitioners.

118. Johanna Silverthorn, widow of Thomas Silverthorn, Senior. Stating that she came into the Province in the year 1787 with her husband and one son, that her said husband received 200 acres of land, but none for his wife or son though it has been located and the name of Thomas Silverthorn inserted thereon in the township of Stamford, and praying that the said lot may be assigned to her, and her name inserted on the plan in lieu of Thomas Silverthorn. Recommended for 100 acres to the heirs.

119. Stephen Stark. In behalf of his mother (the widow of Major William Stark, deceased), himself and five brothers and sisters. Stating that petitioner's father died at New York in the year 1782, on the British full pay, and praying that a portion of land may be assigned to his widow and surviving children. The petitioner's father having died previously to the conclusion of the war, his claim was not substantiated. The Committee therefore cannot recommend the prayer of this petition.

120. John Stoner, late Butler's Rangers. Praying for lot 19 in the township of York, and to be confirmed in lot 26 in the township of Hope with its broken front, on which he has built a house. He must specify the authority under which he made the improvement in Hope, but the Committee recommend him for whatever lands he may be entitled to as a soldier.

121. Rueben Sherwood. Stating that he served as a volunteer in Jessup's Corps, that he has received 300 acres of land, and praying for such addition, in the township of Bastard or Kitley, as may be deemed meet. Recommended for 300 acres in addition.

122. Sarah Shepperd. Stating that she is the daughter of Solomon Jud, who served during the late war in Fanning's Corps, and praying for lands as the daughter of a loyalist. Recommended for 200 acres upon producing a certificate of the petitioner being the daughter of a U.E. Loyalist.

123. Abel Stevens. Praying for a tract of land and the great falls on the Gananoque to erect a mill on. Referred to former directions respecting Mr. Sherwood and the petitioner.

124. Thomas Swan. Stating that he has received 1200 acres of land and praying for 800 in addition. He does not make it appear that he is entitled to more, therefore not recommended.

125. John Silverthorne. Stating that he came into the Province in the year 1787 with a wife and two children, that he has received 200 acres for himself and family, and praying for an addition thereto. Wants a certificate for family lands.

126. Terence Smith. Stating that his late father, Doctor Smith, received pay as a Captain during the late war, and praying that a Captain's proportion of land may be allowed to him. Recommended to complete the donation of 2000 acres to Doctor Smith's heirs, they having already received 1400 acres.

127. Jonathan Scott. Praying for a 200 acre lot on Yonge Street. Settled.

128. Samuel and Timothy Thompson, heirs of the late Captain Andrew Thompson of Butler's Rangers. Stating that the said Capt. Thompson was drowned towards the close of the American War, and praying that his proportion of lands may be assigned to them, and that the half of such proportion claimed by Timothy Thompson may be granted to Mrs. Elizabeth Thompson, widow of James Thompson, brother of Capt. Thompson. Captain Thompson having died previous to the termination of the war, the Committee do not recommend the prayer of this petition.

129. David Turney. Praying to be confirmed in lot 12 in the broken front in the township of Murray. Recommended, if Mr. Aitkin can settle him under his general instructions.

130. David Turney, Junior. Praying for lot 13 or 14, broken front in the township of Murray. Recommended for 200 acres of land if Mr. Aitkin can accommodate the petitioner under his general instructions.

131. William Thorn. Stating that he has two sons and six daughters, and praying for family lands. Mr. Thorn's sons may come forward if they are of age.

132. Laurence Thuresson. Stating that he has received lands on the Black River in the township of Marysburgh, and praying for lot 7, King's reserve, in right of his wife, the daughter of a loyalist. The Committee cannot recommend to grant the reserve prayed for, but recommend that 200 acres in addition may be granted to the petitioner in any other situation.

133. Isaac Vrooman. Stating that he has been ten years in the Province, and has received a certificate for 200 acres of land. To specify the prayer of the petition.

134. Benjamin Wilson. Praying for lot 4, first concession of the township of Whitby, on which he has built a house. Recommended for 200 acres in Whitby.

135. John Wilson. Praying for 1200 acres of land in addition. Recommended for 200 acres in addition.

136. Frederick Williams. Stating that he served in the Engineer Department as carpenter during the late war, and praying for land for himself and family, consisting of a wife and six children. Recommended for 450 acres, including family lands, if not granted before.

137. Armstrong Williams. Praying for land in the township of Murray. Recommended, if Mr. Aitkin can settle him under his general instructions.

138. Lieut. Robert McDougall, late 8th Regt. Praying for his proportion of land as a reduced subaltern. Recommended to grant to Lieut. McDougall the quantity of land he may be entituled to as a reduced subaltern on producing his commission and his becoming a real resident in this Province conformable to the general instructions.

139. Amos Weeks. Recommended for 200 acres of land.

140. William White. Praying for a lot in the town of Newark and such other quantity of land as may be deemed meet. Recommended for a town lot, or 200 acres of land.

141. Peter West. Praying for a town lot at York adjoining Duke Kendrick's, and lot 9, west side Yonge Street. Recommended for a town lot and 200 acres.

142. Cornelius Winney, late corporal, Butler's Rangers. Stating that he has received no lands, and praying for such quantity as may be deemed meet. The petitioner does not reside within the Province.

143. Christian Warner, late serjeant, Butler's Rangers. Stating that he has received 400 acres of land, that he has a wife and nine children, six of whom were born before the year 1788, that he has improved the land already granted to him, that part of the gore between Newark and Stamford lies opposite to one of his lots (No. 138 in Newark), and praying for 100 acres in addition and lands for his family, and that the said gore may be part thereof. Recommended that his military lands may be made up including the gore, if practicable, and family lands for so many of his children as he can prove by certificate to have come in with him.

144. Elijah Phelps, late Butler's Rangers. Recommended for 300 acres which appear to be due to him, the petitioner stating that he never received any. Ordered 300 acres in addition, making 600 acres in the whole.

145. Paul Trumpour. Praying for a point of land, containing about 15 acres, joining lot 32, 3rd concession of the township of Adolphustown. To lie over till further information can be had from Mr. Aitkin.

146. Nicholas Hagerman, Esquire. Stating that he has received 600 acres of land and praying for 1200 in addition. The Committee cannot recommend the prayer of this petition.

147. Archibald Thompson, in behalf of Andrew and David Thompson, Ebenezer Cavers, and their families. Andrew Thompson, for self and family, 400 acres; David Thompson, for self and family, 400 acres; Ebenezer Cavers and wife, 200 acres. Recommended to His Excellency.

148. William Samuel Marsh. Praying for 200 acres of land in the township of Murray. Recommended for 200 acres if Mr. Aitkin can settle the petitioner under his general instructions.

149. Silas Cook, late Royal Yorkers. Stating that he settled in this Province in the year 1787, with a wife and five children, on 100 acres of land in the township of Grimsby, but never received a certificate for it, and praying for 300 acres in addition for himself, and 300 acres family lands. To be confirmed in his 100 acres.

150. John McDougall. Stating that during part of the American War he served in the Waggon Department, and praying for lot 12 in the 5th concession situated on the bay, if vacant, or a farm lot adjoining to York, and likewise No. 3 on the west side of Yonge Street, or No. 17 on the same side: Recommended for 200 acres if not granted before but not on Yonge Street.

151. Elias Smith. Stating that he came into this Province eight years ago with a wife and eight children, that he has received 600 acres of land for himself and family, and praying for 50 acres to complete 200 for himself, and 200 in right of his wife, the daughter of a loyalist. Wants the certificate for his wife and family.

152. Michael Wardell. Stating that he served during the American War as serjeant in the New Jersey Volunteers, that he has a wife and three children, and praying for 500 acres of land for himself and such quantity for his family as may be deemed expedient. Recommended, on producing his discharge.

153. Dennis O'Reilly. Stating that he has frequently petitioned for lands as a Captain, that he never received any but a certificate from the Mecklenberg Land Board for 200 acres, and praying for the proportion of land usually granted to officers of that rank, or such quantity as may be deemed meet. The petitioner not having produced any documents from whence he can be considered as a

Captain of any provincial corps, the Committee does not recommend him for more than the 200 acres allotted him by the Land Board of Lunenburgh.

154. Hannah McBride. Praying for such proportion of land as may be deemed meet. Cannot be recommended.

155. Sarah McBride. Stating that her late husband, Patrick Read, was a private in the 5th Regt., that she has two children by him, and praying for such quantity of land as may be deemed meet. Referred to His Excellency.

156. Dan Millard, Esquire. Stating that he was appointed by will of his late brother, Jesse Millard, one of his executors, that the said Jesse at the time of his decease left two children who are since dead without issue, by which he is become heir-at-law to his brother's property, that the widow of the deceased having been joined with the petitioner in the administration has since refused to act after having obtained possession of the greater part of the personal property without paying any of the debts or otherwise accounting therefor, and refuses to deliver the Minutes of Council given by His Excellency's orders for the benefit of the heirs, that petitioner is willing to give her the share allowed by the will, it being exactly what the law in such cases allows, and praying that lot 112, containing 100 acres in the township of Stamford, may be granted to petitioner as well as the remaining 200 acres which his said brother was entitled to for his military services. This being a matter of law, the Committee has no business with it.

157. George Lawe, Junior. Stating that his brother, John Tonnandine Lawe, was an ensign in the 84th Regt., that he was drowned in the year 1785 without having received any lands, and praying that the proportion to which he was entituled may be granted to him. The Committee in consideration of the services of the petitioner's father, and that the deceased would have been entituled to lands as a subaltern had he been now living, and the distressed circumstances of the petitioner, beg leave to recommend him to Your Excellency, if his prayer can with propriety be complied with.

158. Nicholas Laselle. Stating that the petitioner was appointed interpreter to the Indian Department, and praying for 1200 acres of land. Recommended for 200 acres if he settles in the Province and has had none granted before.

159. Henry Hixson. Ordered 200 acres.

160. Dorcas Kendrick, widow of John Kendrick who served nine years in the 22nd Regt. of Foot. Praying for land. Recommended for 200 acres if neither petitioner nor husband has received lands before.

161. Solomon Holbert. Praying for 200 acres of land. To lie over for appearance.

162. Joseph Harris. Praying for lot 35, 1st concession of the township of Hamilton, and lot 13, 2nd concession of the township of Hope. Recommended for 200 acres only in the township of Hope.

163. James Haselip. Praying for 200 acres of land at the Settlement of Long Point. Recommended for 200 acres if not granted before but not at Long Point.

164. John Haslip. Stating that he has a wife and two children, that he has been upwards of eight years in the Province, that he has received 200 acres of land and improved it, that, having been settled by authority of the Land Board before the land was surveyed, he found that near half his improvement falls on the lot adjoining that for which he has a certificate, and which is yet vacant, and praying for an additional lot. Referred to the Surveyor General to make enquiry and accommodate petitioner if proper. To be accommodated. Approved. (Signed) Peter Russell.

165. Captain Graham. Stating that having already petitioned for lots 76 and 77 on the east side of Yonge Street, he now prays that the following lots may be granted to him to make up his complement of land viz., Nos. 81, 82, 84 and 85 in the 2nd concession, Nos. 81, 82, 84 and 85 in the 3rd concession, Nos. 77, 78 and 79 in the 3rd concession, No. 81 in the 4th concession, all on the east side of Yonge Street, and Nos. 1 and 2 on the west side of Yonge Street, 2nd concession. Referred to His Excellency's determination.

166. William, James, Thomas and Robert Forsyth, of Detroit. Praying for land in right of their father, William Forsyth, late 60th Regt. Recommended for 200 acres each if none has been granted before, and, if their father has not received his military lands, his portion as a soldier to be divided among them.

167. Peter Freel. Praying for a subaltern's proportion of land. Settled before.

168. Abner Everett. Praying for 200 acres of land. Recommended for 200 acres if not granted before.

169. Daniel Field. Stating that he served as serjeant in Butler's Rangers, that he has a wife and five children, that he has received 200 acres of land, that his father also served in Butler's Rangers and died in the year 1787 without receiving any land, and praying that his father's proportion of land may be granted to him, and such quantity for himself and family as may be deemed meet. Recommended that the lands already granted to the petitioner may be made up 500 acres, as a serjeant in Butler's Rangers, and that the 300 acres which his father would have been entitled to had he been alive may be granted to his heirs.

170. Alexander Douglass. Praying for lands. Recommended for 400 acres on his residing in this Province.

171. Alexander Douglass. Praying for a town lot in Niagara. Recommended for a town lot at Niagara if a resident in the Province.

172. Archibald Campbell. Stating that he is in possession of a Land Board certificate for the Midland District for 200 acres which is not assigned, and praying for the rear part of lot 14, and half 13, in the 5th concession of Adolphus Town. Referred to the Surveyor General and recommended to be granted if the lots appear to be vacant.

173. Daniel Cummins. Stating that he has a wife and five children, and praying for 400 acres of land. Recommended for 200 acres of land if not granted before.

176. John and Joseph R. Palmer, sons of Serjeant Palmer, late 34th Regt. Praying for land. Recommended for 200 acres each if not granted before.

177. Thomas Richardson. Praying for the little falls on the north-east side of the Black River to erect a mill on, and 200 acres of land. Recommended for 200 acres if not granted before and referred to the Surveyor General to be accommodated if practicable.

178. Rodolph Roche. Stating that he served in the German Troops during the American War, that he is married to the widow of Serjeant Newberry, late of Butler's Rangers, and praying for family lands for her and her four children, and 300 acres of land for himself. Recommended to be made up 300 acres.

179. William Smith, son of Rudolph Smith, of Quebec. Praying for land. Recommended for 200 acres if not granted before and he is a resident in the Province.

180. Joseph Bastable. Praying for land in the township of York. Recommended for 200 acres.

181. David and William Bruce, and William Markison. Praying for a township. Not recommended.

182. Samuel Allen, of the State of New York, and others. Praying for a tract of land. The Committee cannot recommend this petition.

15th July, 1796.

Council Chamber, at York.

Present: Hon. AE. Shaw, John McGill, D. W. Smith.

By His Excellency the Lieut. Governor's directions, the Committee proceeded to examine the public accounts for the last half year from the 1st January to the 30th June, 1796, as follow:

Hon. D. W. Smith, Surveyor General from 10th Oct., 1795, to 30th June, 1796, £2238.14.16½ (dollar at 5/).

His Excellency the Lieut. Governor's office, £565.10.11¾ (stg.).

Hon. John McGill, Storekeeper, £739.1.2¾ 7/10 (stg.).

Hon. John McGill, Agent for Purchases, £4057.1.6¾ 3/10 (stg.).

John Small, Esq., Clerk of the Council, £103.4.6.

Adjourned.

18th July, 1796.

Council Chamber, at York.

Present: His Excellency John Graves Simcoe, Esq., Lieut. Governor; Hon. Peter Russell, Hon. AEneas Shaw, Hon. John McGill, Hon. D. W. Smith.

Resolved, upon the motion of His Excellency the Lieut. Governor, that the Order of Council of the 23rd July, 1793, as far as relates to the granting one thousand acres to Lieut. Mayne Duncanson, be rescinded, he having become a citizen of the United States.

Resolved that the lands known by the name of the Long Beach between Lake Ontario and Burlington Bay, together with the lot 3 on the north side of Burlington Bay, in the township of Flamborough, be especially reserved to defray the expenses of the building of the public inn on the Long Beach.

Resolved that the lots 12, 13, 14, 19, 20 and 21 on Dundas Street between Burlington Bay and the Grand River be reserved to defray the expenses of opening the Dundas Street.

Resolved that three thousand acres in the front of Murray be reserved for the purpose of facilitating the cutting of a canal between the Bay of Quinte and Newcastle (or Presqu'ile) or for such other public benefit as it may be appropriated.

Robert I. D. Gray, Esquire, took the oaths being appointed Solicitor General of the Province.

His Excellency left the Council, and the Committee proceeded on the auditing of the public accounts from adjournment of the 15th as follow:

Hon. Peter Russell, Receiver General, £4120.13.2½ 6/10 (dollar at 5/).

Hon. Peter Russell, for the incidental expenses of his office between 1st Jany., 1794, and 30th June, 1796, £273.4.5 7/10.

John White, Esq., Attorney General, £49.4.5 7/10.

John White, Attorney General, attending His Excellency, travelling expenses, etc., £33.12.5 7/10.

William Jarvis, Esq., Secretary, fees due to His Excellency the Lieut. Governor from 1st Jany. to the 30th June, 1796, £181.10.

20th July, 1796.

Council Chamber, at York.

Present: His Excellency John Graves Simcoe, Esq., Lieut. Governor; Hon. Peter Russell, Hon. AEneas Shaw, Hon. John McGill, Hon. D. W. Smith.

Read the petition of the Hon. Peter Russell stating that the Hon. Robert Hamilton, Esq., having lodged a caveat in the Secretary's office against his issuing a patent granted to your petitioner by Your Excellency under the great seal of the Province for sixteen hundred acres of land in the townships of East and West Flamborough, being in part of three thousand acres granted to your petitioner in right of his services as a reduced Captain, and Your Excellency in Council having resolved on the 10th July, 1793, that the certificates given by the Land Board of Nassau to Lieut. John Bradt (in whose name Mr. Hamilton has entered the above mentioned caveat) for certain lands in East Flamborough, cannot be confirmed for reasons therein given, and Your Excellency having in another Council held at Navy Hall the 25th of May, 1796, resolved that the certificates granted by the said Land Board of Nassau to Peter Tenbroeck, Esquire, in the same township of East Flamborough, cannot be confirmed for reasons therein set forth at large, and the said Lieut. John Bradt having neglected to appear before the Council to support the caveat entered with the Secretary of the Province by his Attorney the said Hon. Robert Hamilton, though notified regularly thereto by the Clerk of the Council, your petitioner prays that an order may issue from Your Excellency in Council to the Secretary of the Province to withdraw the said caveat, and deliver to your petitioner His Majesty's grant for the said sixteen hundred acres of land in East and West Flamborough aforesaid. Which is humbly submitted to Your Excellency by the petitioner. Ordered that the Clerk of the Council issue an order to the Secretary of the Province according to the prayer of the petition.

Read the petition of Aaron and Isaac Skinner. Petitioners having erected a mill on lot 18, pray for lot 13 adjoining on the east side of the River Don. Granted.

Christopher Robinson. Praying for a lot of land in York. Ordered that the prayer of the petition be granted and referred to the Surveyor General.

Thomas Billop. Praying for a grant of 1200 acres. Granted provided he shall become a resident in the Province.

Read the following report:

May it please Your Excellency: In obedience to Your Excellency's order to me of the 14th instant, to report to you in Council what proportion of the expense of surveying the township of Whitby being attached to each lot would reimburse the Government, I am to state to Your Excellency my opinion that if twenty shillings per every 200 acres are paid for the locations therein, Government will be fully remunerated for the survey of that township. All of which is submitted to Your Excellency's wisdom. (Signed) D. W. Smith, A.S. General. Ordered accordingly.

The Lieut. Governor desires to inform the Council that, in case the provisional agreement for the purchase of lands from the Indians at Pennetanguishene or Gloucester Bay should be carried into execution, he has promised to Mr. Cowan, or Constant, a grant of twelve hundred acres in that vicinity including his present house and improvements.

The Lieut. Governor desires permission to enter on the Council Book that the grant of two hundred acres made to his son, an infant, in the neighborhood of York, and on which he has made improvements, and as requested by him under particular circumstances, and is in part of the land to which the Lieut.

Governor was entituled as Lieut. Colonel, Commandant of the late Queen's Rangers during the American War. Permission granted.

Read the petition of Jane Sachevrell, stating that her late husband, John Sachevrell, served as a volunteer in the Indian Department. Praying for lands in his right. Recommended 300 acres if not granted before.

21st July, 1796.

Council Chamber, at York.

Present: Hon. AEneas Shaw, Hon. John McGill, Hon. D. W. Smith.

The Honourable Peter Russell took the oath for duly administering the Government of Upper Canada in the absence of His Excellency the Lieut. Governor.

The following accounts were audited:

William Jarvis, Esq., Secretary, £110.11 (dollar at 5/).

William Jarvis, Esq., Registrar, £44.2.10.

David Burns, Esq., £18.16.8.

The Queen's Rangers, for opening Dundas Street between Burlington Bay to the Humber, £30.1.6.

Read the petition of Benjamin Willcox, stating that he came into this Province in the year 1788, with a wife and six children, that he has only received a certificate for 200 acres of land, and praying for family lands. Wants the certificate for family lands.

Read the petition of George Wright, stating that he is a free mulatto, and praying for a lot in the town of Newark and 200 acres of land. Not recommended until enquiries are made into the merits of the petitioner.

Read the petition of Bolsar Munshour, praying for lot 35 on Yonge Street. Recommended to be granted.

W. B. Peters. Praying for 1200 acres of land. Recommended for 1200 acres.

1. Read the following letter from the Surveyor General to the Clerk of the Council:

"Surveyor General's office, 1st October, 1796. I wrote you on the 5th August to say you had given a warrant to John Coon for No. 18 township of York, and another warrant to him for No. 19.

"Since that I have received another warrant from you for the same No. 18 in favor of Isaiah and Aaron Skinner who, you state, purchased the lot of Abraham Larraway by His Excellency's permission.

"As the description for the patent was made out for John Coon, under the first warrant, I beg leave to acquaint you thereof, that no blame may lie on this office in case of difficulty. I am, etc., (Signed) D. W. Smith., A.S.G."

It appearing that lot 18 was granted to John Coon under an Order of Council dated the 15 July at York, and that No. 13 adjoining on the east side of the River Don was granted to Aaron and Isaiah Skinner by a subsequent Order of Council dated the 20th July, it is ordered that the Surveyor General be directed not to grant any description or make any entry on a warrant from the Clerk of the Council in favor of the said Aaron and Isaiah Skinner for No. 18, as a warrant of Council had issued before for the same lot in favor of John Coon, and as the Skinners were permitted by the Council to purchase the lot 19 from Larraway, the Clerk's warrant of survey to Coon for that lot is a mistake and not to be entered for him by the Surveyor General.

2. Read the following letter from the Surveyor General to His Honour the Administrator:

"Surveyor General's office, 30th September, 1796. Referring to Your Honour's letter of the 24th ultimo, I propose, if it meets Your Honour's approbation, to send Allan McDonell to survey the township of Clarke. I am, etc. (Signed) D. W. Smith." Ordered.

3. Lieut. Cowall, late of the 99th Regt., now of the Queen's Rangers. A warrant of 2000 acres to be granted to the petitioner paying full fees, and referred to the Surveyor General.

4. Thomas Hill, late serjeant, 33rd Regt. 500 acres ordered to be appropriated for him.

5. Elizebeth Banta, widow of the late Capt. Banta. Praying for land. Military lands have been granted to the petitioner's husband by which she will of course benefit.

6. John Rumbough. Stating that he was located by Mr. McNiff on the west half of lot 15 in the 3rd concession of township 3, now Osnaburgh, in the year 1786, which had been relinquished by two several persons at different times, viz., John Servos of La Chine in Lower Canada, and John Waldroff of the Eastern District, that the said Servos claims the lot because his name is inserted on the plan of the said township, though he has neither ticket nor certificate to entitle him to the same, and praying that an investigation may be made of the same before the issuing of the deed to the said Servos, as petitioner has made improvements on said lot from the date of his ticket of location. Ordered the Clerk of the Council to give notice to Servos to show cause before the middle of next June why the petitioner ought not to be confirmed in the lot prayed for.

7. John Moore. Stating that he has been settled seven years in this Province, that during the late war he sent several recruits to serve in the new raised corps within the British lines, that he has suffered much in person and property for his loyalty, and praying for an additional grant of lands. Ordered 400 acres in addition.

8. Peter Medoch. Stating that he came into the Province in the year 1785 with a wife and two sons, that he has only received 200 acres of land, and praying for family lands. Ordered family lands to petitioner if not granted before.

9. Stoffle Richards, late of Butler's Rangers. Stating that he has received 200 acres of land, and praying for 100 in addition in his own right, and 100 acres family lands. Ordered 100 acres in addition if not granted before. Petitioner does not appear entituled to family lands.

10. Nicholas Nicholson. Ordered 200 acres if not granted before.

11. Levy Lewis, Junior. Stating that he has a wife and four children, and has been nine years in the Province, that he received certificates from the Land Board for 200 acres of land for himself and 200 for his family, that he has located on lots 1 in the 1st, 2nd and 3rd concessions of Saltfleet, and lot 21 broken front in Grimsby, that the lots in Saltfleet are only about 17½ chains wide, and that the one in Grimsby contains about 80 acres only, and praying that the quantity of land in the said lots may be ascertained, and that 200 acres in addition may be granted to him. Ordered 200 acres in addition in consideration of his land falling short of petitioner's expectation.

12. Daniel Malcom. Stating that during the recess of Council he was located by His Honour the Administrator on a lot of land in Caistor, and praying to be confirmed therein. Confirmed.

13. Alexander and James Lymburner. Stating that they received 200 acres each in the township of Caistor, and praying for lots 8 and 9 in the 2nd concession of said township (if vacant) whereon is a mill seat on the division line of the two lots. Prayer granted on petitioners entering into bond with the Surveyor General

to complete the mill within 15 months or forfeit all claim from this order, and paying any expense former applicants may have been at to the lots prayed for.

14. Christopher Berninger. Stating that he came into the Province in the year 1787 with a wife and one child, that he has received 100 acres of land, and praying for 100 in addition for himself, and 100 acres family lands. Ordered 200 acres in addition for self, and family lands if not granted before.

15. Jesse Pawling. Stating that he settled in the Province in the year 1787 with a wife and two children, that his wife is the daughter of a loyalist (U.E.), that he never received family lands, and praying for 200 acres in right of his wife, and 100 acres to his family. Family lands granted if not done before.

16. Henry Neaffe. Praying for 200 acres of land in the township of Humberstone. Ordered 200 acres if none granted before.

17. John Freeman. Stating that he served under Sir John Johnson as a volunteer, and praying for 300 acres of land in the Long Point Settlement. Ordered 200 acres if not granted before. Certificates of his having served under Sir John Johnson must be produced to entitle him to the lands of a soldier.

18. James Wilson. Stating that he has received 450 acres of land, that upon personal application to His Excellency the Lieut. Governor he was told the quantity would be made up 1200 acres, and praying for 750 acres in addition. Being desirous of fulfilling the promises of His Excellency, the Board do not judge themselves at liberty to reject the prayer of this petition. Ordered, therefore, on that consideration alone that the land granted to petitioner may be made up 1200 acres.

19. Robert Dickson of Michillimackinac, merchant. Stating that he has been 15 years settled in the Province, and praying for such quantity of land as may be deemed meet. Ordered 600 acres on petitioner becoming a resident in the Province.

20. Colin Andrews. Stating that his father commanded on Lake Ontario where he lost his life, and praying for such proportion of land as may be deemed meet. Ordered 1200 acres including former grants.

21. William Monk, late of Butler's Rangers. Praying for 300 acres of land. Ordered 300 acres if not granted before and petitioner produces a certificate to the Surveyor General of his having brought his family into the Province.

22. Peter Martin. Stating that his brother served during the late war in Butler's Rangers, and died about the reduction of said corps, and praying that the land he was entituled to may be granted to him. Inadmissible, all such applications having been already refused.

23. James Hoghtelling, late Butler's Rangers. Praying for 300 acres of land and a town lot in Newark, also praying for land in right of his son, William Hoghtelling, who served under Capt. Brandt and was taken prisoner by the Americans and hung. Discharge wanted. To be ordered 300 acres if not granted before, and a town lot in the town of Newark.

24. Lieut. Paxton. Stating that he is married to the daughter of Michael Levitre who served His Majesty faithfully in quality of master carpenter on Lake Ontario, that he has four children living, and praying for family lands. Ordered 200 acres to the petitioner's wife as the daughter of an old servant of the King, and 200 acres in addition to enable her to educate her four children.

25. Robert Renchy, late 5th Regiment. Stating that he served many years in said regiment and praying for 300 acres of land. Prayer of petition granted.

26. Cornelius McDonagh. Ordered 200 acres if not granted before.

27. Richard Martin. Stating that he served three years in the Marine Department, and has been regularly discharged, and praying for such quantity of land as may be deemed meet. Ordered 400 acres.

28. John, George, and Peter Coghill. Stating that their late father served in Butler's Rangers and never received any land, and praying that the proportion of land he might be entituled to may be granted to petitioners. Prayer granted on producing their father's discharge or a certificate of his having been disbanded with the regiment, and referred to the Surveyor General to search whether lands have been granted to him.

29. Isaac Lonsbury, late of Butler's Rangers. Praying for 300 acres of land. Prayer granted on the prescribed conditions.

30. Donald Gerard, late ship carpenter, Marine Department. Ordered 400 acres if none granted before.

31. Leonard Misener. Stating that he came into the Province in the year 1785 with a wife and nine children, that he has received 500 acres of land, and praying for 200 in addition to his family lands. Ordered that the petitioner's family lands be made up to him.

32. Lieut. Hugh Earl, late Marine Department. Stating that he has received 400 acres of land, and praying for such further quantity as may be due to him. The petitioner not having served during the war has no claim to any specific portion of land but, in consideration of the merit he has shown during his small time of service, the Board orders him 400 acres in addition to the 400 ordered him before.

33. John Kendrick. Stating that he has a wife and five children, that he has been upwards of three years settled at York, that he has never received any land, and praying for 600 acres. The Board does not judge it expedient to grant the prayer of this petition.

34. Michael Shaw, late of Butler's Rangers. Stating that he is married to the daughter of a loyalist, that he has three boys, two of whom were born previous to the year 1789, and praying for his own and family lands. Ordered 300 acres if not granted before, and 200 acres in right of his wife, the daughter of a loyalist, on producing the required certificate of her being so. The children not having been brought into this Province before 1790, petitioner is not entituled to family lands for them.

35. Elizabeth Graham. Stating that she applied to His Excellency the Lieut. Governor for lot 12 front concession granted to P. Willard who is dead, that no improvement has been made on said lot, that His Excellency promised petitioner the lot if Willard's heirs did not come into the Province within six months, and praying that said lot may be granted to her and family. Others having applied for the lot prayed for on the same pretentions of the Governor's promise, and application having been made by the heirs of Willard, the Board does not judge it expedient to come to any immediate determination.

36. Richard Hyde. Stating that he has served upwards of 20 years in different regiments, and having now his discharge prays for 300 acres of land and a town lot at Newark. Prayer granted.

37. John H. Kahman. Stating that he served during the American War as quarter master serjeant in Colonel Van Barner's Regt., that he has received 200 acres of land, and praying for such addition for himself and family (a wife and child) as may be deemed meet. Ordered that the petitioner's lands be made up the quantity usually given to serjeants.

38. Charles Smith, of Quebec. Praying for 500 acres of land. When Mr. Charles Smith comes into this Province his pretensions will be considered.

39. Christian Knisley. Stating that he has been settled in this Province six years, has a wife and four children, and praying to be secured in lot 28, 3rd concession of Humberstone, on which he has made improvements, and as part thereof fall on the next lot he prays for 30 acres thereof, as no person will think of taking it for a location, the remaining part thereof being more than usually a wet swamp. Ordered lots 28 and 29 if vacant.

40. John Rudolph Smith, of Quebec. Praying for 1200 acres of land. When Mr. R. Smith comes into this Province attention will be paid to his pretentions.

41. James Russell. Stating that he served during the late war in the boats under Agent Topkins, that he was coxswain to the boat which usually carried the officers on the expeditions, and praying to be put upon the footing of a corporal by receiving 400 acres of land, that is, 200 in addition to what he has already got. If the petitioner brings proof of his allegations, the addition he prays for will be granted to him.

42. John Udle. Stating that he served 5 years in the 26th Regiment, that he has received 200 acres of land and praying for 100 acres in addition. Prayer granted if not done before.

43. John Leslie. Order of Administrator confirmed.

44. Joseph Haslip and James Flemming. Praying for 48,000 acres of land to accommodate thirty-eight settlers (as well as themselves) expected from Ireland. The petitioners having been ordered 200 acres each, the prayer of the petition for an appropriation of a larger quantity for associates inadmissible.

Inhabitants of the Grand or Ottawa River. Stating that no concessional or subdivision lines have been run in Hawkesbury or the adjacent townships bounding on the Grand River, that in the interior parts of the township there are neither roads nor marked ways, that no road has been laid out on the Grand River by order of Government, and praying that the said township of Hawkesbury and the adjacent townships may be surveyed, and a road laid out on the Grand or Ottawa River. Roads having been directed to be opened by an Act of the Legislature, the Board is precluded from interfering. Two concession lines having been ordered to be run in the three lower townships, the Surveyor General will be directed to cause the surveys to be made to the extent promised under certificates.

46. Arthur McCormick. Stating that he served as assistant storekeeper to the Indian Department at Detroit, that he has not before applied for land, and praying for such quantity as may be deemed meet. This has been settled before.

47. Peter Bradt. Stating that he has a wife and two children, that he has received 200 acres of land and praying for 200 in addition. Prayer granted if petitioner has actually received no more than he states.

48. Alexander McDonell. In behalf of his nephew, Hennerietta Allan McLean, and his niece, Bell McLean. Ordered 400 acres to Hennerietta Allan McLean and Bell McLean, nephew and niece of the petitioner.

49. David Fleming. Stating that he served as Surgeon at Gibraltar and the West Indies upwards of 21 years, that for the last three years he has served on the Canada Establishment, and praying for land. Ordered 600 acres on condition of petitioner's settling in the Province.

50. Walter How. Praying for 200 acres of land. Ordered 200 acres if none has been granted before and petitioner produces to the Surveyor General a magistrate's certificate of his good character.

51. John McGlashan. Stating that he has received 200 acres of land and praying for an additional allotment. Ordered, in consideration of his recommendations and connections, 200 acres in addition.

52. Jonas Carle. Stating that he served in the corps commanded by Colonel James Delancy during the late war, that he is married to the daughter of a loyalist and has five children, that he has received 200 acres of land, and praying for family lands. Petitioner being married to the daughter of a loyalist wants proof. Petitioner to receive 200 acres in right of his wife, the daughter of a loyalist, as per certificate adduced.

53. William Currant. Stating that he has a wife and nine children, praying to be confirmed in a lot of land which he received at Long Point during the recess of Council, and for 800 acres in addition. Location for 200 acres confirmed.

54. Heirs of Colonel Butler, in behalf of Mrs. Guthrie. Stating that they are relations of the said Mrs. Guthrie, whose husband was Surgeon to the late Corps of Rangers and died after the conclusion of the war without receiving any lands as a staff officer, that the said Mrs. Guthrie has for several years past been unfortunately deranged in her mind, and has hitherto been maintained by Col. Butler and family at Montreal with considerable expense, and being desirous to establish some means for her future support, pray that the lands to which her husband might be entituled to may be granted to petitioners. Reference to be had to the proceedings of the Council at Quebec. If Mr. Guthrie had never received any lands in consideration of his services, ordered that the land usually granted to officers of his rank be granted in trust to the petitioners for the maintenance of his widow during her life, preserving however the rights of the deceased's children if any exist.

55. Charles Wilson. Stating that he came into the Province in the year 1788 with a wife and five children, that he never received any land, and praying for land for himself and family. Ordered 200 acres for petitioner if not granted before. A certificate wanted to prove his right to family lands.

56. Donald McKay. Stating that he served His Majesty eight years as ship carpenter, that he has a wife and five children, and praying for land. Ordered 400 acres if none granted before.

57. Robert Shearer. Praying for land at the Long Point Settlement. Ordered 200 acres, if not granted before, on producing certificate of his having taken the oaths, etc.

58. Peter Teeple. Stating that he served during the late war as a serjeant, that he has a wife and six children, that he has received 200 acres at Long Point, and praying to be confirmed in lot 9 in the 2nd township on which he is settled, and for such further quantity of land as may be deemed meet. Ordered 500 acres as a serjeant in a reduced provincial regt., if not granted before, and permitted to be located at Long Point.

59. David Mulholland. Ordered 200 acres of land if not granted before.

60. Hugh Mulholland. Ordered 200 acres if not granted before.

61. Conrad Dorsheimer. Stating that his lot in Stamford adjoins the gore between that township and Newark, that in improving his own lands he has inadvertantly, and before the surveys were made thereof, carried his improvements on the gore and has cultivated it for upwards of ten years, and praying for that part of the gore which adjoins his lot in Stamford. Ordered to be confirmed in his improvements in the gore not exceeding 100 acres in addition to petitioner's lots in Stamford and Newark.

62. Nancy McDougall, widow of the late Duncan McDougall. Stating that some time last year His Excellency Lieut. Governor Simcoe, in Council,

was pleased to grant to her said husband 2000 acres of land, viz., 1200 to himself and 800 to his two eldest sons, John and Nicholas, that her husband died on his way home without having signified his intentions respecting the distribution of the said lands to his family, that she proposes to remove into this Province with her family, and praying that her two eldest sons may be confirmed in 400 acres each, and the remaining 1200 to her other three children jointly, Nancy, Daniel and Sarah McDougall. The prayer of this petition will be provided for by the Legislature.

63. Mary Street. Stating that she is the daughter of Samuel Street, Esq., a loyalist, and praying for land. Ordered 800 acres on her becoming a resident in the Province.

64. Isaac Hurst. Ordered 400 acres if none granted before.

65. Isaac Davis. Praying for 1200 acres of land in the township of Kitley. The petitioner has already got the King's bounty which the Board does not judge it expedient to add to at present. If petitioner's wife is the daughter of a U.E. Loyalist, he will, upon producing proofs to the Surveyor General, receive 200 acres in addition in her right.

66. Abraham Lampman. Stating that he has been settled some years in the Province, that his wife is the daughter of a loyalist, that he has received 100 acres of land and praying for 200 in addition to himself and 200 in right of his wife. Ordered 100 acres in addition and 200 acres in right of his wife, if not granted before, on producing certificate of her being the daughter of a loyalist.

67. Ralph Clench, late Lieut. Butler's Rangers. Stating that he has received 1200 acres of land, and praying for the remaining 800. Prayer granted and referred to the Surveyor General.

68. Benjamin V. Clench. Stating that he served in the Quarter Master General's Department during the late war, that he has for some time past resided in the United States with his family (a wife and five children) but intending to remove into this Province, prays for such quantity of land as may be deemed meet. This petition will be attended to when the petitioner becomes an actual resident in the Province.

69. Jonas Barns. Stating that he came into the Province more than ten years ago, that he received a ticket for four lots for himself and family, that having only located one lot, prays to be confirmed in the possession thereof (his name being inserted thereon) and to grant him the remaining 300 acres. Referred to the Surveyor General to confirm petitioner in the lot his name is inserted on, and to make up that quantity 400 acres if not granted before.

70. Joseph Lane. Praying for 600 acres of land in the township of Murray, or in any township contiguous to the Little Lake. Ordered 200 acres if not granted before.

71. Joseph Adams. Stating that he served four years in the Marine Department on Lake Ontario, two of which he commanded one of the gun boats, and praying for 400 acres of land. Prayer of petition granted.

72. John Morty, late Butler's Rangers. Praying for 300 acres of land. The petitioner is to produce his discharge or proof that he belonged to Butler's Rangers on the reduction. He has produced sufficient proof. Signed, Peter Russell.

73. Thomas Dickson. Stating that he has been seven years settled in the Province, that he has received 200 acres of land and praying for an addition thereto. Ordered 400 acres in addition.

74. Samuel Fulton. Stating that he has taken the Oath of Allegiance and praying for land. Ordered 200 acres on his producing certificate of his having taken the required oaths, etc.

75. Philip Young. Stating that he has been nineteen years in the Province, that he has a wife and six children, and praying for land for himself and family. Ordered 200 acres if none granted before.

76. William Dickson. Stating that lot 33 in the town of Newark on which the Masons' lodge is built was granted by the Land Board, but no ticket issued in consequence, that the said lot and lodge have since been sold by the members to petitioner and praying to be confirmed in said lot. Prayer granted.

77. Nicholas Forbes, late Butler's Rangers. Stating that he has never received any land and praying for 300 acres as a reduced Ranger. Ordered 300 acres if not granted before on producing certificate of his having his family with him in this Province.

78. Nathaniel Damon. Praying for 200 acres of land in the Long Point Settlement. Ordered 200 acres if not granted before, and permitted in Long Point.

79. Alexander McQueen, Senior. Stating that he received a ticket by order of the Land Board for 4 ½ lots, but understanding from the Acting Surveyor General that it is not sufficient to get out his deed, prays to have the said ticket confirmed, and that a patent may issue to him. The Land Board ticket for 450 acres confirmed and lands ordered to that quantity if not granted before.

80. John Gamble, Surgeon. Stating that some time since he petitioned His Excellency the Lieut. Governor in Council for a lot of land on the east side of the Don, No. 12, formerly granted to the late Willoby Willard, that His Excellency informed petitioner that if the heirs of Willard did not come into the Province to reside in six months petitioner should have it, that more than six months are now elapsed, and the heirs, not intending to come into the Province, have given a Power of Attorney to sell it, and praying that the said lot may be granted to him. If the heirs of Willard being resident in the Province claim the lot petitioned for, their claim will be attended to at the first Council, of which the Clerk of the Council is to give notice to the parties, until then no definitive answer can be given to the petitioner.

81. Robert Richardson, Queen's Rangers. Praying for a town lot in Newark. Ordered a town lot in Newark.

82. Colin McNabb. Praying for an acre lot in the town of Newark. Ordered a town lot in Newark.

83. John Turney, Lieut. late Butler's Rangers. Praying for a town lot in Newark. Ordered a town lot in Newark.

84. John Claus, late Butler's Rangers. Praying for a lot in the town of Newark. A town lot in Newark ordered.

85. Charlotte Dickson. Stating that she is the daughter of Major John Adlam, an officer upwards of fifty years in His Majesty's service, and praying for such proportion of land as may be deemed meet. Ordered 800 acres.

86. John Cassey. Stating that he served eight years in the Marine Department on Lake Ontario, three years of which as gunner of the Messessague and Mohawk, and praying for such quantity of land as may be deemed meet. Ordered 400 acres, and referred to the Surveyor General, including former grants.

87. Henry Kniskarn, late Butler's Rangers. Praying for 300 acres of land. Prayer granted on consideration of his producing certificate of his family being in the Province, if no lands have been granted before.

88. Jacob Post, late Butler's Rangers. Praying for 300 acres of land. Prayer granted on consideration of his producing certificate of his family being in the Province, if no lands have been granted before.

89. George Hain, late Butler's Rangers. Praying for 300 acres of land. Prayer granted on consideration of his producing certificate of his family being in the Province, if no lands have been granted before.

90. John Stinor, late Butler's Rangers. Praying for 300 acres of land. Prayer granted on consideration of his producing certificate of his family being in this Province, if no lands have been granted before.

91. Latham Stull, late Butler's Rangers. Praying for 300 acres of land. Prayer granted on consideration of his producing certificate of his family being in this Province, if no lands have been granted before.

92. John Smith, late Butler's Rangers. Praying for 300 acres of land. Prayer granted on like conditions with other Rangers lately come in.

93. John Snider, late Butler's Rangers. Praying for 300 acres of land. Prayer granted on producing certificates of his family being come in with him, if not granted before.

94. Edward Brinley, Esqr., Assistant Commissary, Nova Scotia. Praying for 1200 acres of land. When Mr. Brinley actually becomes a settler in this Province 1200 acres will be granted him.

95. John Coon, late serjeant, Butler's Rangers. Stating that he received 200 acres of land at York, the deed for which has been refused him at the Secretary's office, and praying to know why the deed is withheld, also praying for family lands for a wife and seven children, and such addition for himself as may be deemed meet. Enquiry to be made of the Secretary for the cause of his detaining the petitioner's deed, and at the Surveyor General's office for further information.

96. Edward Long. Stating that he served three years in the Marine Department as a boatswain, and praying for such quantity of land as may be deemed meet. Discharge and signature wanted. To be allowed what has been given to boatswains.

97. Jane Clarke. Stating that she is the widow of John Clarke, deceased, the mother of four children, has resided seven years in the Province, that neither petitioner nor her said late husband ever received any lands, and praying for 600 acres. To produce a recommendation. The recommendation being satisfactory the petitioner to receive 200 acres.

98. W. D. Powell, Junior. Praying for such quantity of land as may be deemed meet. Ordered 1200 acres.

99. John and William Lottridge, heirs of the late Capt. Lottridge. Stating that in their capacity as aforesaid they have a just claim and right to 200 acres of land near the town of Newark now in the occupation of Mr. Thomas Butler, and unjustly claimed by the heirs of the late Colonel Butler who in fact was himself but tenant at will of the said Capt. Robert Lottridge, that petitioners have entered a caveat against the emission of any deed or deeds for the said lands until their claim be audited in Council, and praying that a day may be assigned them to appear and be heard in the premises. Ordered that the proceedings respecting the lots prayed for are stopped until the claims of both parties can be heard in full Council.

100. Daniel McPherson. Stating that he has received 200 acres of land, and 200 in right of his wife, and praying for 200 acres in addition, and a town lot in Newark. A lot in Newark may be given to the petitioner.

101. Elizabeth Clench. Stating that she is the daughter of Lieut. B. Johnson, and praying for such quantity of land as may be deemed meet. Ordered that 800 acres be granted to the petitioner.

102. George Campbell, in behalf of his wife, Hannah Campbell. Stating that he received a certificate from the Land Board of the counties of Grenville and Leeds, and praying to be confirmed therein, also for 200 acres in right of his wife and 200 acres family lands. Ordered 200 acres in right of his wife, daughter of a loyalist, if not granted before. Certificate not sufficient to entitle petitioner to family lands.

103. George Ball. Stating that he has received 340 acres of land including his part of the tract granted Jacob Ball and sons and two lots in Grantham, and praying to have the quantity completed to 1200 acres. Ordered 260 acres in addition to the 340 he mentions to have received.

104. Alexander Douglass. Stating that he has received 400 acres of land and praying for an addition thereto. Ordered 200 acres in addition to put petitioner on an equal footing with Mr. T. Dickson, etc.

105. Thomas Ward. Ordered 200 acres.

106. Ebenezer Jones. Stating that he received a long time ago an assignment from the Land Board for lot 9 in the 1st concession, together with the broken fronts in the township of Flamborough East, and praying to be confirmed therein. This application came before the Council at York in July last. It was then understood that Mr. A. McDonell, for the heirs of Capt. Allan McDonell who had received an assignment for lot 9, had agreed to relinquish it to Mr. Jones who appears to have a prior claim. If this has not been done the parties will be heard before the first Council.

107. Augustus Jones. Stating that he received a long time ago an assignment from the Land Board for lot 10 in the 1st concession and the lands in the front of the same in the township of Flamborough East, and praying to be confirmed therein. The Board gives the same answer to this petition that was given to the one of Ebenezer Jones of same date, to which refer.

108. Jacob Earnest. Stating that he has been eleven years settled in the Province, has never received any lands, and praying for 200 acres of land. Ordered 200 acres if not granted before.

109. John Williams. Praying for lots 201 and 202 in the township of Thorold on which he has made improvements. Prayer of the petition granted and referred to the Surveyor General.

110. Capt. Ryerse. Praying for land for his sons, Samuel and George Joseph Ryerse. Application judged too early.

111. John Dayly, of Newark. Stating that he has received 200 acres of land, and praying for 200 in addition for himself and 200 acres for his sister Honoria, wife of John Edwards who is in the West Indies. The petitioner has had as large a portion of land as the period of his residence entitles him to. The foundation of his sister's claim to land is not mentioned. If the daughter of a loyalist, her husband will receive 200 acres in her right.

112. William Osterhout, late Butler's Rangers. Stating that he is married to the daughter of William Pickard, that neither he nor his wife ever received any land, and praying for 300 acres for himself and 200 in right of his wife. Ordered for himself 300 acres as a discharged soldier, and 200 in right of his wife, the daughter of a loyalist, if not granted before.

113. John Hart. Stating that he has a wife and six children, and praying for 600 acres of land. Ordered 200 acres if not granted before.

114. Peter Beneville. Stating that he served nine years in the Marine Department, that he has received 200 acres of land, and praying for 100 in addition and 200 in right of his wife, the daughter of a loyalist. Ordered 200 acres in right of petitioner's wife, the daughter of a loyalist. Only the sailors who served during the war are considered as having a claim to 300 acres. In consideration however of petitioner's long service 100 acres in addition are ordered.

115. Francis Weaver, late Butler's Rangers. Stating that he has received 300 acres of land, that he has a wife and five children, three of whom were born before the year 1789, that his wife is the daughter of a loyalist (U.E.), and praying for 200 acres of land in right of his wife and 150 acres for his three children. Ordered 200 acres in right of petitioner's wife, the daughter of a loyalist, if not granted before. The certificate for family lands not sufficiently explanatory.

116. David Burns, Esq. Stating that he has received only 1000 acres of land as a reduced Surgeon, and praying that the residue may be granted to him, together with a town lot in York. Ordered that he receive 1000 acres in addition to complete the 2000 acres he is entituled to as a reduced Surgeon.

117. John Stevens, Senior, late Butler's Rangers. Stating that he has received 300 acres of land, that he brought a wife and seven children into the Province in the year 1778, for whom he never received any land, and praying for 400 acres family land. Family lands ordered.

118. William Pickard. Stating that he received 200 acres of land on the Four Mile Creek, that part of said land has since been reserved for the Crown, and praying redress therein. Referred to the Surveyor General to report.

119. William Trombell. Stating that he served in a corps called the Royal Forresters, and praying for 300 acres of land as a reduced soldier, and family lands, having a wife. Ordered 300 acres if not granted before on his bringing his family into the Province.

120. John Sealey. Praying for 200 acres of land. Ordered 200 acres if not granted before.

121. Jacob Potts. Stating that he has been settled in the Province since the year 1789 with his family, consisting of a wife and six children, that he was authorised by the Land Board to look out for lands for himself and family in the township of Willoughby before the lands were surveyed, that since the survey of the said township he finds his improvements consisting of a dwelling house, and 20 acres of cleared land fall on lots 14 and 15 in the 5th concession on which the name of E. Dean has been since inserted, and praying to be confirmed in the said lots, and for 200 acres in addition. The Acting Surveyor General having reported that the petitioner improved under the sanction of the Land Board on lots 14 and 15 in the 5th concession of Willoughby before the appropriation to Ezra Dean, he is to be confirmed in those lots including his improvements.

122. Charles Saguin. Stating that he has been some time settled in this Province, that he bore arms during the siege of Quebec by the Americans, that he was four years in the King's works as an artificer, that his wife is the daughter of a serjeant in the 8th Regt., that he has never received any land and praying for such quantity as may be deemed meet. Ordered 200 acres if none granted before.

123. William Empey, Junior. Praying for 200 acres of land. Prayer granted if none has been granted before.

124. Richard Empey. Praying for 200 acres of land. Prayer granted if none has been granted before.

125. John McGregor, of Detroit, merchant. Praying for 1200 acres of land. Ordered 600 acres on condition that petitioner actually becomes a resident in the Province.

126. John Muckle, Junior. Praying for 200 acres of land. Prayer granted if none has been granted before on producing certificate of his having taken the oaths, etc.

127. Andrew Gage. Praying for lot 1, 4th concession on the River la Trench. Ordered 200 acres if none granted before and referred to the Surveyor General for location.

128. John Trull. Stating that he has been some time settled on lot 14, 1st concession of the township of Hope. Praying to be confirmed therein, and for lot 7, 3rd concession, in addition. Mr. Smith permitted to locate petitioner on two lots in the township of Hope.

129. Nathan Walton. Praying for 1200 acres of land. Prayer granted to be located in the township of Hope.

130. Elias Smith. Stating that he served during the late war as Captain of an independent company and praying for 3000 acres of land. The petitioner to produce his commission to the Surveyor General who is hereby authorized to locate Mr. Smith in 3000 acres in the township of Hope, including the 1200 acres already allowed him there.

131. Jonathan Bedford. Praying for 1200 acres of land. The Board complies with the request of Mr. Smith in consequence of the good character of the petitioner and his having served during the war, to the extent of 1200 acres to him including all former locations.

132. Jonathan Walton and Elias Smith. Praying that lots 5, 6 and 7, with their broken fronts, may be confirmed to them, having erected mills on the same. Prayer granted as part of the 1200 acres they are permitted to locate for themselves.

133. William North. Praying for 200 acres of land. Prayer granted if not granted before.

134. Thomas Craig. Praying for 200 acres of land. Prayer granted if not granted before.

135. Michael Cox. Praying for 200 acres of land. Prayer granted if not granted before.

136. John Reynolds. Praying for 200 acres of land. Prayer granted if not granted before.

137. John Shelburne. Praying for 200 acres of land. Prayer granted if none granted before.

138. James Robinson, late of Butler's Rangers. Stating that he has received 140 acres of land in the Western District, and praying for 160 acres in addition. Prayer granted upon producing his discharge, or proper certificate of his having been a soldier, to the Surveyor General to whom he is referred.

139. Alexander Marakle. Praying for lot 182 in the town of Newark. Prayer granted.

140. Robert Fulton. Praying for land. Ordered 400 acres of land on producing the required certificates of his having taken the oaths, etc.

141. Andrew Templeton. Stating that he has received 200 acres of land, and praying for an addition thereto, and a lot in the town of Newark. The petitioner having already received an acre in Newark and the King's bounty in land. it is not judged expedient to add thereto at present.

142. Oliver Tiffany. Praying for an addition to lands already received. Ordered 600 acres in addition to former grants upon producing certificates of his having taken the required oaths, etc.

143. Abraham Walker. Stating that part of his improvement falls on lot 17, in the front of the township of Rainham, and praying to be confirmed therein. Referred to the Surveyor General to be confirmed if proper.

144. Joseph Macartney. Praying for 600 acres of land in the township of Murray. Ordered 200 acres if not granted before.

145. Samuel Cox. Stating that he served as an artificer during the late war, and praying for such quantity of land as may be deemed meet. Ordered 300 acres if not granted before.

146. Peter Piniy. Praying for a lot in the town of York. The petitioner may have a town lot at York on the required conditions.

147. Samuel Street. Stating that he has been many years in possession of lots 2 and 3 with their broken fronts in the township of Newark, and being entered for the same in the Surveyor General's office at Quebec, prays that the Surveyor General may be directed to give such description of the same as will enable the Attorney General to make out the title deeds; also praying for such further quantity of land as a residence of nineteen years in the Province may entitle him to. Referred to the Surveyor General to report on lots 2 and 3. Ordered that the petitioner receive 1200 acres including former grants.

148. George Shuman. Stating that he has served His Majesty, that he had a wife and three children before the year 1788, that he has received 200 acres of land, and praying for 100 acres in addition and 200 acres family lands. Petitioner must produce his discharge and a certificate of his being entituled to family lands.

149. Joseph, Duke William and Hiram Kendrick. Stating that they have received 200 acres each on Yonge Street and praying for 400 acres each in addition. Not judged expedient at present.

150. Charles J. Peters. Praying for such quantity of land as may be deemed meet and for a town lot at Kingston. Ordered 1200 acres and a town lot in Kingston.

151. Joseph Edwards. Praying for a town lot in Newark. Prayer granted.

152. Simon McNabb. Praying for a town lot in Newark. Prayer granted for a town lot in Newark.

153. Dennis Shoff. Stating that he has a wife and two children, and praying for lands at Long Point Settlement. Ordered 200 acres on producing certificate of his having taken the oaths, etc., if none has been granted before, but not at Long Point.

154. Henry Harman. Stating that he served as a soldier under General Knyphausen, that he has a wife and seven children, and never received any land. Praying for 300 acres. Ordered 200 acres if none granted before. Proofs wanting to confirm his title to more.

155. Philip Resh. Stating that he served in the German Troops during the late war, that he has a wife and three children, that he is settled on a lot in the gore of Charlotteville, which His Excellency the Lieut. Governor induced him to hope he might possess on application, and praying for 400 acres in Long Point Settlement including the said lot. Ordered 300 acres including the land in Charlotteville on which he is settled.

156. William Oldfield. Praying for 200 acres of land. Ordered 200 acres if not granted before.

157. Jacob Miller. Stating that he has resided seven years in the Province, that he has a wife and four children, that he has located 200 acres of land in

Pelham, and that his name is entered in the plan thereof, and praying to be confirmed in the same. Ordered if what petitioner states be true.

158. Capt. Andrew Bradt. Stating that he is married to the daughter of a loyalist (U.E.), and praying for 200 acres of land. Ordered 200 acres in right of his wife, the daughter of a loyalist, if not granted before, on producing to the Surveyor General the required certificate.

159. Jean Baptiste Crete, of Detroit. Praying for 1200 acres of land. The petitioner may have 200 acres assigned him upon his becoming an actual settler in this Province.

160. John McCall. Stating that the names of McMichael and McCall have been inserted on lot 13 in front of the township of Walsingham, and praying that said lot may be assigned to him if vacant. Referred to the Surveyor General to reconcile the parties.

161. Ebenezer Kelly. Stating that he has a wife and four children, and praying for 400 acres of land. Ordered 200 acres if not granted before.

162. John Cain, Senior, late Butler's Rangers. Stating that he had a wife and one child before the year 1789, that he has received 200 acres of land, and praying for 100 acres in addition, and 100 acres family lands. Ordered 100 acres in addition as a soldier if not granted before, the certificate not sufficient to prove his title to family lands.

163. Jacob Anguish, Junior. Praying for 200 acres of land. Ordered 200 acres if not granted before, and petitioner is of age.

164. Job Slaght. Stating that he came into the Province lately with his family consisting of a wife and eight children, two of whom are of age, and praying for such quantity of land as may be deemed meet in Long Point Settlement. Ordered 200 acres for the present for himself. If the petitioner's children are of age to entitle them to lands he must apply to the Administrator and bring certificates of his conduct in the States.

165. Henry Slaght. Praying for 200 acres of land for himself and 200 in right of his wife, the daughter of Serjeant Hamenoner late of Barton's Corps, in the Settlement of Long Point. Ordered 200 acres if not granted before. Proof wanting of his wife being entituled.

166. John Evans. Ordered 200 acres if not granted before on his becoming an actual settler.

167. George Woodby. Stating that he has a wife and five children, that his wife is the daughter of a loyalist, that she has never received lands, and praying for 200 acres in her right. The petitioner's claim not sufficiently authenticated.

168. Alexander Gardner. Praying for such quantity of land as may be deemed meet. Referred for consultation with His Excellency. Ordered 600 acres on condition the petitioner accepts them in lieu of all other claims.

169. Andrew Heron. Stating that he has received 400 acres of land for himself and family and praying for 800 acres in addition. To lie over. Ordered 400 acres in addition to make what he has received 800 acres.

170. William McCool. Praying for 600 acres of land. Ordered 200 acres.

171. John Small. Stating that he is clerk to the Honourable Executive Council, and presuming that employment entitles him to certain fees, prays that they may be ascertained with precision, to satisfy all persons who have business in the Council Office. The Board having taken the same into consideration judge it reasonable that the Clerk of the Council shall be allowed the following incidental fees:

For receiving and filing all petitions	/6
Reading the same before the Council	2/6
Entering the order thereon and giving a copy of the minute or warrant	2/6
	5/6

172. Archibald Thompson, and associates. Stating that during the American War they served as volunteers under Capt. Brandt and praying for 1200 acres each for themselves and family lands for their wives and children, viz.: Archibald Thompson, a wife and six children; Daniel Rose, a wife and eight children; James Park, a wife and four children; John Chisholm, a wife and four children. Ordered that the petitioners shall receive each 1000 acres including former grants, and such family lands as they make appear to the Surveyor General they are entituled to.

173. Daniel Hazen. Stating that he was employed in the Surveying Department by Mr. Philip Frey in 1788 and 1789 in the Home District, that his accounts amounted to £87/16, New York currency, that he has not been paid and praying that 1200 acres of land may be granted to him in lieu. Note: The Committee cannot recommend the granting lands in lieu of money, but the petitioner is recommended to His Excellency's consideration as a deserving object.

Reconsidered 8 October, 1796: The petitioner's accounts are ordered to be sent to Quebec to be adjusted. In consideration of his being so long out of his money, the Board orders the lands already granted him to be made up to 600 acres, being 200 acres.

174. Bernard Frey, late Capt. Butler's Rangers. Stating that he has received his complement of military lands, and praying that he may be allowed to locate 1500 acres thereof in the Long Point Settlement, also praying for 100 acres for his wife and one child born before the year 1789. The county of Lincoln having been originally appropriated for the accommodation of the Rangers, so large a quantity cannot be given to the petitioner in the Long Point Settlement. Certificate wanting for the family lands asked for.

175. John Dochsteder, late Lieut. Indian Department. Praying for the quantity of lands allowed to officers of his rank. Lieut. Dochsteder of the Indian Department to receive 2000 acres if not granted before.

176. Thomas Steward. Stating that he bore arms during the American Rebellion, and was employed as a driver to the artillery and field train, that he has received 200 acres of land and praying for 100 acres in addition, and family lands for a wife and four children. Prayer granted and referred to the Surveyor General. If petitioner came into this Province before 17 February, 1789, family lands for a wife and four children to be allowed him. Certificate being produced allowance for family lands to be made, being 250 acres.

177. John George Schultze. Stating that he served His Majesty during the American War as per his discharge, and praying for 300 acres of land. Prayer granted if none has been granted before.

178. George Irwin. Stating that he was born in His Majesty's 29th Regt., and praying for such quantity of land as may be deemed meet. Ordered 300 acres as a soldier.

179. Edmund Hodges. Stating that he came into the Province four years ago with his wife and nine children, that he has received 200 acres of land, and praying for such addition as may be deemed meet. The petitioner having

already received the King's bounty, it is not judged expedient at present to add to it. His sons who are of age may have lands for asking for them.

180. Mary Gordon, wife to James McLauchlin. Stating that she is the daughter of a loyalist (U.E.), and praying for 200 acres of land. Petitioner's claim not sufficiently authenticated.

181. James Fulton, Thomas C. Drew, and associates. Praying that the townships of Rawdon and Huntingdon which have been forfeited may be re-ordered to them, and that their claims as proprietors may remain open. The townships prayed for having been declared open by proclamation will not be again appropriated to the petitioners. The Lieut. Governor's Proclamation dated 7th February, 1792, sufficiently explained the terms on which lands are granted in Upper Canada. Mr. Drew, Mr. Edward Campbell, Mr. John Norton, Messrs. Samuel and Joseph Willard may receive 1200 acres each upon their becoming residents in this Province and applying for the same, as they never could have received more. If any persons are settled in the townships they may be confirmed by following the method pointed out by the Surveyor General's office in September last, being a repetition of former notices.

182. Louis David Harkaman. Praying for 200 acres of land. Ordered 200 acres if not granted before.

183. William Vanhorn. Praying for 200 acres of land and a lot in the town of Newark. Ordered 200 acres of land if not granted before and a lot in the town of Newark.

184. John Prince, alias Robinson, a free negro, late of Butler's Rangers. Stating that he has received 114 acres of land in the Western District, and praying for 186 acres in addition. Ordered 300 acres as a reduced soldier if not granted before.

185. John Hewett. Stating that, being desirous to erect a brewery at York, he, for that purpose, prays for half an acre on the beach below the bank opposite the 100 acre lot 8 whereon is the name of Geo. Playter, Esquire, and also praying for a lease of the lots 8 and 9 between the bank and the front of the lots. Prayer cannot be granted.

186. William May, late Butler's Rangers. Stating that after the reduction of said corps he settled with his family, consisting of a wife and five children, in the township of Grantham, that he has since occupied lots 19 and 20, 2nd concession, 17, 18 and 19 in the 3rd concession, and 18 and 19 in the 4th concession of the said township, that he received certificates for said lots, and praying to be confirmed in the same. Recommended that the Surveyor General may be authorised to assign to the petitioner the lots returned to his office from the Surveyor's office at Quebec.

187. Henry Putman, late Butler's Rangers. Stating that he has a wife and five children, that he has received 400 acres of land, and praying for 200 acres of land in right of his wife, the daughter of a loyalist, and a further allowance for his children. Recommended to complete his military and family lands if not already done with 50 acres, and for 200 acres in right of his wife if not granted before.

188. Robert Nicholson, late of Jessup's Corps. Stating that he has received 200 acres of land and praying for 100 in addition and 200 acres in right of his wife, the daughter of a loyalist (U.E.). Proofs wanting for both.

189. William Mulyneux. Praying for 200 acres of land in right of his wife, the daughter of a loyalist. No right unless proof of the father's being a loyalist (U.E.).

190. George Thompson, late Lieut. Orange Rangers. Praying for a town lot in Newark. Mr. Thompson must produce his commission and proof of his receiving half pay before he can be acknowledged a Lieut. in the Orange Rangers.

191. John Cox. Stating that he has received an Order of Council for lot 14 in the 1st concession with its broken front and 200 acres in addition, but has only received lot 14, and praying for lots 6 and 7 and the lot in the rear of No. 6 with its broken front in the township of Scarborough. Reference must be had to the York report in which the balance of lands due to the petitioner were ordered.

192. William Branan, late 84th Regt. Stating that he is entituled to 500 acres of land for himself and family, that he has received 300 acres, and praying for the west half of lot 20 and the east half of lot 21 on the south bank of the main branch of the River aux Raisins in the township of Cornwall. Reference to be had to the Council Book of Quebec and to the Deputy Surveyor of the district.

193. James Huftaling. Stating that he served during the late war in America, and praying for a grant of land on the River Humber. Certificate wanted of the petitioner's character.

194. Thomas Arrowsmith. A magistrate's recommendation for 200 acres of land. Referred to the Deputy Surveyor of the Midland District.

195. Sampson Lutes. Stating that he joined Colonel Butler in the Indian country during the American War, that he has received 300 acres of land, and praying for family lands. It appearing that petitioner has already got his military lands and no fresh reasons having been adduced for adding to them, the Committee does not recommend the prayer of this petition. But it appearing from a certificate of a Justice of Peace that the petitioner brought in with him a wife and three children, 200 acres are to be ordered to him for family lands if not granted before.

196. Ann Moseley, widow of George Moseley, serjeant in the 45th Regt. Stating that she came into the Province upwards of three years since with her late husband and her son Benjamin, that her son has only received 200 acres of land, and praying that such addition may be granted to her and her said son as may be deemed meet. Wants explanation.

Jemima, Sarah, and Mary Johnson. Praying to have their father's lands completed, and for lands in their own right. Reference being had to records, it appears that the petitioners have received deeds for the 1900 acres granted to their father as part of his military lands as a reduced Lieutenant. Ordered that this quantity be made up 2000 acres and that 800 acres be granted individually to each of the petitioners in consideration of their personal merits.

3rd October, 1796.

Colonel Richard England. A deed for 1200 acres of land in the township of Dunwich. Cancelled at the request of the Honourable D. W. Smith on account of the quantity of land granted not corresponding with the Order of Council or the description, and another deed ordered to be prepared. (Signed) Peter Russell, Administrator.

13th October, 1796.

Council Chamber, at Newark.

Present: Honourable Peter Russell, Administering the Government, and Honourable D. W. Smith.

Read the following petitions:

1. Joseph Wardell. Stating that he came into the Province in the year 1788 with a wife and four children, that he has received 150 acres of land, and praying for 50 acres in addition for himself and 250 acres family lands. Ordered 50 acres in addition if not granted before. Certificate wanted for family lands.

2. Peter Gordon. Stating that during the late war he assisted greatly in piloting and sending recruits to the British Army, and praying for such quantity of land as may be deemed meet. Ordered 300 acres if not granted before.

3. Henry Bowman, late Butler's Rangers. Stating that he has received 100 acres of land, that he has a wife and three children and praying for a further portion of land. Ordered 200 acres to complete his military lands if not granted before.

4. Peter Laughton. Stating that he is the son of Mr. John Laughton, that he has never received any lands, and praying for such quantity of land as may be deemed meet. Ordered the same quantity of land as petitioner's brother if none granted before and petitioner becomes a resident in this Province.

5. William Crumb, late volunteer Indian Department. Stating that he settled in the Province in the year 1783 with a wife and three children, that he has never received any land, and praying for 300 acres for himself and 200 acres family lands. Ordered 300 acres if not granted before, proof wanting of his being entituled to family lands.

6. Derrick Bell, late Butler's Rangers. Praying for 300 acres of land. Ordered 300 acres on producing his discharge if not granted before.

7. John Ten Broeck. Praying for 1200 acres of land. Referred for consideration when the Council meets.

8. Thomas Otway Page. Praying for a town lot in Newark and such further quantity of land as may be deemed meet. Reserved for enquiry.

9. James Kinney, late 84th Regt. Praying for lands. Ordered 300 acres as a soldier if not granted before.

10. Benjamin Smith. Praying for lands. Ordered 200 acres if not granted before and petitioner of age.

11. Henry Beamer. Stating that he came into the Province in the year 1787 with a wife and seven children, that he has received 200 acres of land for himself and 200 for his family, and praying for 200 acres family lands in addition. Ordered the 200 acres due to him for family lands if not granted before.

12. John Beikie, of Cornwall. Stating that he has received 200 acres of land, and praying for an addition thereto. No reasons adduced why the King's bounty should be extended further to the petitioner.

13. Hugh Mulholland. Stating that in the year 1793 he petitioned His Excellency the Lieut. Governor for lots 31 and 32 in the 5th concession of Saltfleet in part of an Order of Council, that His Excellency granted the same provided the Surveyor General saw no objection, that the Surveyor General has been prevented from assigning him those lots because the name of one Nicholas Hileager appeared on the plan, that this man it is said left the Province six years ago without having received a certificate, that it is also said he is dead, and praying to be confirmed in the possession of the said lots, and to authorise the erasure of the name of Hileagar from the plan. Notice to be given as in case of Slingerland.

14. James Stephenson. Praying for 200 acres of land. Ordered 200 acres if not granted before.

15. Priscilla Nellis, widow of Captain Henry William Nellis, deceased. Stating that her late husband never received any lands in her right, and praying

for such quantity as may be deemed meet. Ordered 400 acres if none granted before.

16. Daniel Seacord. Stating that he served in the Indian Department during the late war, that he came into the Province in the year 1777 with his wife, and praying for lands for himself and her. Ordered 300 acres if not granted before.

17. Josiah Bennet. Praying for 200 acres of land. Ordered 200 acres if not granted before.

18. Christian Hersha. Praying for lands. Ordered 200 acres if not granted before.

19. Benjamin Hersha. Stating that he came into the Province twelve months ago with five sons and three daughters and praying for 1200 acres of land. Ordered 200 acres if not granted before, his request for more referred to a full Council when they meet.

20. Daniel House. Stating that he is married to the daughter of a British soldier, that he has a wife and five children, three of whom were born previous to February, 1789, and praying for family lands. Ordered 150 acres for family lands if not granted before.

21. Jacob Rymal. Stating that he has a wife and one child, that he has received 200 acres of land, and praying for such addition as may be deemed meet. No reason adduced in support of his request.

22. Cornelius Lambert, late non-commissioned officer in Butler's Rangers. Stating that he has received 300 acres of land, and praying for 100 in addition and family lands for his wife and five children. Ordered 100 acres in addition as a corporal if not granted before, and 150 acres family lands if not granted before.

23. John Backer, late Butler's Rangers. Ordered 300 acres as a soldier if not granted before on producing his discharge.

24. John Files, late corporal, Royal Yorkers. Stating that he never received any land, and praying for 400 acres for himself and 200 in right of his wife, the daughter of a loyalist. Ordered 400 acres on producing his discharge as a corporal and 200 acres in right of his wife, the daughter of a loyalist, if not granted before.

25. Abraham Hersha. Praying for lands. Ordered 200 acres if not granted before.

26. Joseph Hills. Stating that he has never received any lands, that he has a wife and three children, and praying for 400 acres of land. Ordered 200 acres if not granted before.

27. Capt. Peter Hare, late Butler's Rangers. Stating that he has only taken up 150 acres of land, that he has a wife and one child born before February, 1789, and praying to have his military lands completed, and for 100 acres family lands. Ordered that petitioner receive 3000 acres as a reduced Captain including former grants and 100 acres family lands.

28. Taulcot Read. Praying for 200 acres of land. Ordered 200 acres if not granted before.

29. Daniel Hazen, late New Jersey Volunteers. Stating that he came into the Province in the year 1786 with his family, consisting of a wife and five children, that he has received 400 acres of land, and praying for such addition as may be deemed meet in the Long Point Settlement. Ordered 200 acres in addition being the balance for his services as a soldier, and family lands if not granted before.

30. Thomas Millar, late Royal Yorkers. Ordered 200 acres if not granted before.

31. John Burch, Esquire. Stating that he is one of the magistrates of the Home District, that he has received 500 acres of land, and praying to have his grant extended to 1200. Ordered that petitioner's grants may be made up 1200 acres.

32. Nicholas Outhouse. Stating that he joined the British troops at Fort Montgomery, and remained with them during the war, and praying for such quantity of land as may be deemed meet. Ordered 200 acres if not granted before.

33. Cornelius Wardle. Stating that he served in Morris' Corps during the late war, that he has been ten years in the Province, has received 200 acres of land, and praying for 100 acres in addition and 50 acres to his wife as family lands. Wants discharge and certificate.

34. Anthony Dogherty. Stating that he came into the Province two years ago with a wife and four children, that he has received a magistrate's certificate for 200 acres, that he has been enrolled as a loyalist (U.E.), and praying for such addition as may be deemed meet. Ordered 200 acres in addition to the 200 ordered before.

35. Tilman Culp. Stating that he came into the Province in the year 1786 with a wife and four children, that he has received 160 acres of land, and praying for 50 acres in addition for himself and 250 acres family lands. Ordered 300 acres in addition for family lands and himself if not granted before.

36. Henry Rogers. Praying for a town lot in Newark. Prayer granted for a town lot in Newark.

37. Alexander McKenzie, for George Ironsides. Stating that the said Ironsides has been strongly recommended by Colonel McKee for 1200 acres of land, and praying to have that quantity made up. Ordered 600 acres in addition.

38. Alexander McKenzie. Stating that he has received 600 acres of land and praying for 600 in addition. Ordered 600 acres in addition.

39. Benjamin Green, late of Rogers' Corps. Stating that he has never received any lands, and praying for 300 acres in his own right, and 200 for his wife, the daughter of a loyalist (U.E.). Wants discharge and certificate.

Adjourned.

11th November, 1796.

John Everson. Praying for 400 acres family lands. The certificate being produced for his family lands, the quantity prayed for in his petition to be granted, if not granted before.

24th November, 1796.

Council Chamber, at Newark.

Present: Hon. Peter Russell, Administering the Government, and Hon. David William Smith.

The Honourable John Elmsley took the Oaths of Allegiance, Supremacy, and Abjuration, and subscribed the Test, and also took the oath for the due execution of his office as an Executive Councillor.

Adjourned.

12th December, 1796.

Council Chamber, at Newark.

Present: Hon. Peter Russell, Administering the Government; Hon. John Elmsley, and Hon. David William Smith.

The Chief Justice informed the Board that he has exercised many parts of his duty as Chief Justice immediately after his coming into this Province, which was on the 20th November last, under the supposition that his commission would bear date with that of his warrant, but finding that his commission is dated the 10th of December, the day on which the seal was affixed to it, and consequently not covering any prior acts of his, he suggests the propriety of cancelling that commission and directing another to be made out to bear date the 21st of November. The Board having taken the Chief Justice's suggestion into consideration acquiesce in the propriety of it, and order it to be done accordingly.

Read a letter from the Acting Surveyor General to His Honour the Administrator dated 6th November, 1796, with a letter from Mr. Chewett relative to some encroachments in the town of York. Ordered in consequence that the eleven links advanced in front of the front line be permitted to stand, but that the encroachments upon the back street shall be immediately retired to the proper boundary, except there should be any houses built in advance prior to the date of this order, in which case these houses may be permitted to stand for the present, but the Board directs that a clause be inserted in the patent of the possessor obliging him to keep within his proper boundaries after these houses come down.

Read the following petitions:

1. Peter Bradt, and the Surveyor General's report. Referred for future consideration and the parties ordered to appear.

2. Joel Stone, with the Surveyor General's report. The Council suspend coming to any determination on this petition until an answer is obtained from the Surveyor General's office at Quebec, describing the boundaries of the 700 acres granted to Joel Stone on the Gananoque under an Order of Council bearing date the 14th July, 1787, and a certificate signed by the Deputy Surveyor General the 2nd August, 1789, which the Acting Surveyor General is directed to apply for without delay and report accordingly.

3. Mr. Justice Powell. Stating that by an Order of the Governor of Quebec in Council, he received an assignment of three thousand acres of land in Hawkesbury, prays that 2000 acres in some other part of the unconceded lands of the Crown in lieu of so many in the said township of Hawkesbury may be granted him. Ordered that the exchange be permitted.

4. James Molloy, Conductor of the Indian Department. Stating that he conceives himself entitled to 2000 acres, that he has not received half of that quantity. Prays for 1000 acres. The petitioner does not appear to be entituled to the quantity of land he claims.

5. Memorial from the magistrates in General Quarter Sessions, held at L'Assomption, Western District. Stating that a paragraph of a letter from His Honour Peter Russell, Esquire, Administering the Government of the Province, to James Baby and Alexander McKee, Esquires, Lieutenants of the counties of Kent and Essex, being laid before them, as follows: "You will also be pleased to recommend it to the Justices at their Quarter Sessions to report to me the state of the prisons, what repairs they may want, and whether new ones are necessary, and how far the inhabitants of the district are capable of bearing the whole, or part of the expense, that provision may be made without delay for building at least one sufficient gaol in each district, which is absolutely indispensible for the prevention of disorder in every community;" to which they represent that the late evacuation of territory has so much curtailed the number of inhabitants of the Western District that it is entirely out of their power to erect a gaol and court house therein; that the present county rates or assessments are not sufficient to pay the necessary expenses for the internal regulation

thereof. They further beg leave to observe that the debts actually incurred by the district cannot by the present assessment be satisfied in less than three years although they have reason to hope that if the Government should be disposed to afford the district a loan of seven hundred and fifty pounds currency, the remainder towards effecting the erection of a gaol and court house may be collected within the district. They further judge it proper to add that as the season is now at hand when the materials can be procured for the purposes of building, they request that an answer may be conveyed to them by the River Thames. By order of the magistrates. (Signed) W. Roe, C.P., and Sess. W.D.

Resolved that an offer shall be made to the magistrates of the Western District of the store-house lately built by Government at Chatham to be used as a prison either in the place where it now stands or to be removed by them to any other more proper situation, but the magistrates are desired in case they resolve on a removal to inform this Board before they do it of the place they shall choose for that purpose.

6. John Denison. In behalf of his wife, Sophia Denison, and his four sons. Ordered two hundred acres to Sophia Denison and 200 acres each to George Taylor Denison, Thomas John Denison, Charles Denison, and John Denison, Junior.

Adjourned.

Copied to this for the Secretary of State and compared. Peter Russell.

3rd January, 1797.

Council Chamber, at Newark.

Present: His Honour Peter Russell, Esquire, Administering the Government; Hon. John Elmsley, Chief Justice, and Hon. David William Smith.

Read the petition of Wm. Dummer Powell, Esquire, Justice of the King's Bench of this Province, praying for a grant of 1200 acres of land to his wife and each of his children, except one son who has already received a donation of land on his personal application, in consideration of the petitioner's actual station in the Province, and ten years' zealous care and labour to promote its prosperity and happiness as also a life of unceased loyalty to the King and constitution. The Council unanimously accede to the prayer of this petition as the petitioner was one of the first American loyalists who adhered to the unity of the empire, and from a conviction of the propriety of their distinguishing the high and important office which the petitioner holds in this Province, and of marking their sense of the ability and zeal with which he has conducted himself in it for several years. It is therefore ordered that warrants of survey shall issue for 1200 acres to the wife of the petitioner, Mrs. Anne Powell, and the same quantity to each of his seven children, John Powell, Grant Powell, Jeremiah Powell, Thomas Powell, Anne Powell, Elizabeth Powell and Mary Boyles Powell.

Adjourned.

7th January, 1797.

Council Chamber, at Newark.

Present: His Honour Peter Russell, Esq., Administering the Government; Hon. John Elmsley, Chief Justice, and Hon. David William Smith.

The Clerk of the Council having informed the Board that understanding complaints are made of his taking fees from loyalists (U.E.), and wishing to be instructed whether the Order of Council of the 8th October last regulating the fees to be taken by him in general for the common services of his office includes applicants of that description as well as others, the Board direct that no fees whatever shall be taken from loyalists (U.E.) for any application to the Council respecting land. It having been also reported to the Board that fees have been taken by the Secretary of the Province for registering powers of attorney to take out patents from his office, it is further ordered that the Secretary do not take any fees whatever from loyalists (U.E.) for that or any other service whatsoever, and that this order shall be considered as binding upon all other offices.

Read the petition of Patrick McGaw, a loyalist (U.E.), stating that he has a wife and nine children, and has received only 200 acres of land. Ordered 400 acres in addition.

Salt Springs. Notice is hereby given that the salt springs situate at the Fifteen Mile Creek, township of Louth, together with six hundred acres of land are to be let for the term of twenty-one years from the first day of July next ensuing on certain conditions which may be known by application at this office. All persons inclined to take a lease thereof must deliver in their proposals at this office in writing, signed by themselves and sealed up, on or before the first day of June next.

Adjourned.

9th January, 1797.

Council Chamber, at Newark.

Present: His Honour Peter Russell, Esq., Administering the Government; Hon. John Elmesley, Chief Justice, and Hon. David William Smith.

Mr. Angus McDonell appeared before the Council and surrendered to the Board three Land Board certificates for lots 5, 6, 7 and 8 in the 6th concession and lot 7 in the 7th concession and lot 14 in the 6th concession adjoining the salt springs in Township 4, now Louth, in the Home District, for the use of His Majesty.

Read the following petitions:

1. The Honourable John Elmsley. Stating that he is Chief Justice of this Province, and an Executive and Legislative Councillor in and for the same, and praying for a grant of His Majesty's vacant lands in this Province. From the petitioner's high situation in this Province as Chief Justice thereof and an Executive Councillor, the Board take the liberty for the present to order him 5000 acres to put him on an equality with respect to land with field officers of the army, who have been hitherto allowed that quantity, but the Board at the same time recommend it to the Administrator to submit to the Secretary of State the propriety of obtaining His Majesty's permission to grant to the Chief Justice such a proportion of land as may be deemed adequate to his rank.

2. The Reverend Thomas Raddish. Stating that he is lately arrived in this Province from England with a desire of settling in the same, and praying for a grant of the waste lands of the Crown. Ordered 1200 acres.

3. Robert I. D. Gray, Esquire, Solicitor General, in behalf of his mother, Mrs. Elizabeth Gray, widow of the late Colonel James Gray, deceased. Stating that her late husband, Col. James Gray, was a Major on half pay who spent upwards of forty years of his life in the service of his King, and who in this infant country to the last continued his zealous exertions towards its advancement by setting an example of loyalty, industry and perseverance to all within his influence, and praying for a grant of the vacant lands of the Crown. Ordered 1200 acres of land as a small mark of respect for her own character and that of her deceased husband.

4. John McBride. Petitioner has a yoke of oxen, and ready to make an immediate improvement, prays for a lot on Yonge Street. Ordered to be located on Yonge Street in a lot of 200 acres.

5. Lieut. John Young. Stating that he was a Lieutenant in the Six Nation Indian Department during the late American War, and was one of the first loyalists who came into this Province, and that he brought a wife and three children. Prays for the usual quantity allowed to officers of his rank and for family lands. Ordered 2000 acres as a reduced Lieutenant and 250 acres for family lands if not granted before.

6. John Castolo. Petitioner served in the Marine Department and prays for land. Ordered 200 acres if not granted before.

7. Richard Flack. Stating that he is the son of a loyalist who served in Sir John Johnson's Regiment, and praying for land. Ordered 200 acres as a settler, his title of admission to the advantages of a loyalist (U.E.) not sufficiently established.

8. Owen McGrath. Stating that he is a native of Ireland, and came into the Province (now Lower Canada) in the year 1793, that he is now removed with his wife and six children into this Province where he is desirous to settle, and praying for land. Ordered 400 acres if not granted before.

9. John Rock. Stating that he was draughted into the Queen's Rangers, and that he served four years and eight months in that regiment. Petitioner having now obtained his discharge prays for a grant of land and a town lot in Newark. Ordered 300 acres and a town lot in Newark.

10. Mrs. Elizabeth McNabb. Stating that petitioner is the daughter of an old servant of the Crown, and wife of Mr. Colin McNabb, Superintendent of Inland Navigation, and mother of a numerous family, and praying for a grant of land. Ordered 900 acres of land.

11. Thomas Ridout, of the Surveying Department, in behalf of his children, George Ridout, Thomas Gibbs Ridout, Anne Ridout and Mary Ridout. Prays for an appropriation of the vacant lands of the Crown for each of them, being the children of a loyalist (U.E.). The Council in consideration of the petitioner's great attention to his duty in the Surveying Department grant the prayer of the petition of appropriating 200 acres to each of his children, George, Thomas Gibbs, Anne, and Mary Ridout.

12. Joseph Haines, Senior, of the township of Newark. Stating that he came into the Province in the year 1786 with a wife and six children and has received only 200 acres, which he has much improved. Ordered 350 acres as family lands if not granted before.

13. Michael Gander. Stating that he has received 200 acres of land for himself and 100 for two of his children, that he has four sons and one daughter more coming from the States, and praying for a further grant. The petitioner appears to have received all the lands he is entituled to.

14. Joseph Edwards. Stating that he has purchased in the town of Newark lots 67 and 281, and that he has erected a store and dwelling house on the former, and a tenement standing on the other. Prays that a deed for the same may be made out in his own name. Ordered that the original proprietors of the lots prayed for must appear before the Board to surrender their certificates before the transfers can be confirmed.

15. William Staats. Stating that petitioner is the only son of Sylvester Staats, a serjeant in Butler's Rangers, who died about two years ago without having located any land, and praying for such lands as may have been due to

his late father. Proof must be adduced to the Board that the petitioner is the only child of the deceased.

16. John Brillard. Praying for land. Ordered 200 acres if not granted before.

17. William Johnston. Stating that he is the only child and heir to the late Capt. John Johnston, that having obtained a certificate from the Land Board for the quantity of land his deceased father was entituled to as Captain in the Indian Department, prays that a warrant may be made out for 3000 acres as a reduced Captain. Ordered that the petitioner appear before the Council and produce the Land Board certificate on which he founds his claim.

18. John Decou. Stating that he has a frame ready to erect a house, and praying for a lot in Newark. Ordered a town lot in Newark.

19. Thomas Whiteaker. Stating that he was discharged in Nova Scotia, from being wounded in the 37th Regiment, and praying for land. Ordered to produce his discharge.

20. George Stewart, in behalf of his wife Mary, the daughter of John Depew, a loyalist (U.E.). Ordered 200 acres to the wife of the petitioner, the daughter of a loyalist, if not granted before.

Ordered (on application) to John Swails 200 acres in lieu of lot 14 in the township of Clinton, which proves to be reserved for a glebe.

Adjourned.

17th January, 1797.

Council Chamber, at Newark.

Present: His Honour Peter Russell, Esq., Administering the Government; Hon. John Elmsley, Chief Justice, and Hon. David William Smith.

Upon a motion of Mr. Chief Justice, ordered that on all petitions, memorials, and other applications to the Board be endorsed the minutes of the Order of Council made thereupon, and that the members present do set the initials of their names thereto.

The Administrator having represented to the Board that, when the seat of Government shall be removed to York, there will be an absolute necessity of securing some certain and safe means of communication by water from thence with the other parts of the Province at all times when the occasions of Government may require, but, in consequence of the reduction of the marine establishment on the two lakes, those communications by means of the King's vessels can never be depended on as York lies out of the usual transport line, and they being employed on that service will seldom be able to attend to the requisitions of Government for any other from York. The Board are therefore of opinion that a vessel of small tonnage sufficiently large to navigate the lake with safety should be provided for the purpose of carrying dispatches and passengers wherever the exigencies of Government may require, and that this vessel should be entirely under the orders of the Governor or person administering the Government of this Province. The Board consequently recommends that the proper officers be directed to cause an immediate survey of the little vessel lately built for a gun boat now at York, and report the possibility of converting her into a dispatch boat with an estimate of the expense attending such a conversion, and lest the above vessel may not be found proper for the service, and as winter is the proper season for providing timber, etc., the Board submits to the Administrator the propriety of his giving the necessary orders in the meantime for felling trees, etc., for a vessel of about forty tons.

Read the following petitions:

1. William Robertson Hamilton, for self and brothers, John Robertson Hamilton, Robert Hamilton, Junior, George Hamilton, Alexander Hamilton, James Hamilton, and Samuel Hamilton. Petitioners are sons of the Honourable Robert Hamilton, all born in this country, and do intend to establish themselves for life in this Province. That with intent to do this with advantage to themselves and the country some of them have already received their education in Britain and others are now there for that purpose. Convinced that landed property alone can give them that permanent respectability which their father has taught them to hope for, they petition for such a portion of the waste lands of the Crown as His Honour may think proper for their purposes and conformable to the rank which the family have hitherto held in the society, and which they with this aid will endeavour stedfastly to maintain. The Board considering the great benefit Mr. Hamilton has been to this infant colony, and the high rank he holds in it, regret they have it not in their power to mark their sense of them by a larger donation of lands than 1200 acres to each of his sons mentioned in this petition, which are hereby ordered.

2. David Brown, late surgeon's mate in the 76th Regt. Praying for the usual quantity of land granted to subaltern officers for his services. Ordered 1200 acres of land.

3. Charles Selleck. Stating that he has served in His Majesty's Marine Department as commissioned officer with the rank and pay of Lieutenant in the Army on board of the armed boats commanded by Colonel Hubbeck, prays for 2000 acres of land. Ordered 1200 acres of land.

4. Peter Bradt, with the Surveyor General's report on the same. Ordered that the Surveyor General may assign to the petitioner lot 13 in the 6th concession of Louth as part of the Order of Council dated 8th October, 1796.

Adjourned.

24th January, 1797.

Council Chamber, at Newark.

Present: His Honour Peter Russell, Esq., Administering the Government; Hon. John Elmsley, Chief Justice, and Hon. David William Smith.

Read a letter from the Acting Surveyor General, inclosing a letter from Nathaniel Pettit, Esquire, adducing proofs of his loyalty during the American War and praying to have his name inserted in the U.E. list. The many respectable offices Mr. Pettit has held in this Province, and the many manifestations he has given of his loyalty and probity, induce the Board to place the utmost confidence in his declaration of having received a British commission and acting under it by order of General Skinner within the American lines. The Board therefore order that Mr. Pettit shall be considered and admitted to all the advantages of a loyalist (U.E.), though he did not actually join the British Army before 1783.

Read the following petitions:

Mrs. Isabella Murray. Stating that she is the widow of the late Lieut. Murray of the late 84th Regiment, that a short time after her husband's decease she had the additional misfortune of losing her son, a quarter master on half pay also of the late 84th, that her situation and that of her daughter is far from being comfortable, that she has received 600 acres of land, and praying to have that quantity made up to 1200 acres. In consideration of the petitioner's distressed circumstances, and the respectable recommendations of her case, the Board order her six hundred acres in addition to the six hundred acres she has already received.

William Spurgin. Stating many services he rendered to His Majesty's troops during the American War, and praying for lot 11 at Long Point, with an addition of land. Ordered 1200 acres including former grants and No. 11 at Long Point herein specified.

John Dunn. Praying for a town lot at Newark. Granted a town lot in the town of Newark on the usual conditions.

Daniel McQueen. Stating that he came into the Province in the year 1787 with a wife and one child, that he has received a Land Board certificate for 250 acres and located the same in the township of Bertie, but, having lost the certificate before assignment, prays that a warrant for the said 250 acres may issue. Ordered on the Surveyor General's report that the lot 16 in Bertie be confirmed to the petitioner.

John Boice, Senior, late of Butler's Rangers. Stating that he has received 300 acres of land but that his wife and three of his children, two of whom were born before the corps was disbanded and the other in the year 1788, have never as yet received any, and praying that family lands may be allowed to him. Ordered 200 acres to Elizabeth Boice, the wife of the petitioner, and 300 acres as family lands, if not granted before.

Jacob Vanalstine. Stating that he served during the late war in Butler's Rangers and has received only 200 acres of land, that he is married to the daughter of a loyalist (U.E.), who has never received any land, and praying for 100 acres in addition, in his own right, and such a portion of land as his wife may be entitled to. Ordered 100 acres in addition, as a soldier, and 200 acres in consideration of his sufferings. His wife to receive 200 acres when a certificate is produced of her being the daughter of a U.E. Loyalist, if not granted before.

Margaret Vanalstine. Stating that she is the daughter of Harmonus Vanalstine, a loyalist (U.E.). Praying for land having never received any. Ordered 200 acres as the daughter of a loyalist (U.E.).

Catherine Bradt and Elizabeth Slingerland. Stating that they are daughters of Harmonus Vanalstine, a loyalist (U.E.). Praying for land, having never received any. Ordered 200 acres each as the daughters of a U.E. Loyalist, if not granted before.

Allan McCrae. Stating that he served in the Marine Department on the River Detroit, that he has been discharged in consequence of the reduction. Praying for land, and a town lot in Newark. Ordered 300 acres as a reduced soldier and sailor, if not granted before.

Suffreinus Vanalstine. Stating that he is son of Harmonus Vanalstine, a loyalist (U.E.). Praying for land, having never received any. Ordered 200 acres.

David Seacord. Stating that he joined the Royal Standard in the year 1777, that he is married to the daughter of a loyalist (U.E.) and has four children, that he has received 400 acres of land, and praying for a further grant for himself and family. Ordered that the lands granted to petitioner be made up 1200 acres, and 200 acres to his wife, Catherine Seacord, the daughter of a loyalist.

James Campbell, late from Nova Scotia. Stating that he is a loyalist and, adducing proofs of his having served during the late American War, praying for land. Ordered 300 acres as a reduced soldier.

Joseph Bigger. Stating that he came into the Province last summer, and praying for such a portion of land as may be deemed meet. Ordered 200 acres.

Read a letter from the Acting Surveyor General relative to George Playter and his children's lands. The Order of Council of July, 1793, gives 100 acres to each of Mr. Playter's eight children. If any of those eight remain still unprovided for, the Surveyor General is directed to assign to them the 100 acres agreeable to the above Order.

Return of persons who have been permitted by His Honour the Administrator to occupy lands during the recess of Council:

1796, October 14th	Timothy Colver	Farm lot.
“ “	Nesbit Colver	do
“ “	Jabez Colver, Jun	do
“ “	Michael Shaw, for his wife, the daughter of Jabez Colver	200 acres.
“ “	Richard Dowdle	400 acres (Copy for Commission).
“ “	Thomas Dowdle	200 acres.
“ “	Phineas Howell	200 do
“ “	William Drake	200 do
	Sons-in-law of Richard Dowdle.	
1796, October 15th	William Cornwell	200 do
1796, October 18th	John Nighton	600 do
1796, October 19th	Christopher Pierce	200 do
1796, October 20th	John Size	200 do
“ “	Benjamin Rogers	200 do
“ “	Cornelius Swartout	200 do
“ “	Eham Seales	200 do
“ “	Solomon Jenkins	200 do
“ “	Bethuel Barnes	200 do
“ “	Jehoihal Miller	200 do
“ “	Charles Seales	200 do
1796, October 22nd	Henry Welner	200 do
	Colonel William Spurgin	1200 acres (including No. 11 in front township of Charlotteville).
1796, November 2nd	Michael Beach	A location.
By Warrant 24th October, 1796	Reverend Edmund Burke	A town lot in York and Niagara.
“ November 4th	Elias Deyo	A location.
“ “ 7th	Mr. Thos. Mercer	200 acres.
“ “ 7th	Samuel Mercer	200 do
“ “ 7th	Arent Von Petter	300 do
“ “ 11th	Benjamin Davis	100 acres in addition.
“ “ 12th	Owen McGrath	200 do
“ “ 17th	John McBride	A location.
“ “ 19th	Mr. Thomas Schofield	No. 23 town lot, York.
1796, December 1st	Ephraim Payton	A town lot at York.
1796, November 14th	Mr. C. Robinson	A 200 acre lot near York.
1796, December 24th	Benjamin Woodhull	200 acres on the Thames.

Surveyor's General's office, 24th January, 1797.

(Signed) D. W. Smith, Act. S.G.

Ordered to be confirmed.

Adjourned.

26th January, 1797.

Council Chamber, at Newark.

Present: His Honour Peter Russell, Esq., Administering the Government; Hon. John Elmsley, Chief Justice; Hon. David William Smith.

Read the following petitions:

David Shank, Esq., reduced Captain of the late Queen's Rangers. Stating that he is desirous of receiving the remainder of his military lands in the township of Flamborough or Murray, but if inadmissible in these, in any one district or township in the vicinity of Lake Ontario; petitioner having received 1500 acres in Flamborough and a promise of 600 acres more in the district of York, which last includes lot 33 formerly granted to Mr. Dainty, deceased. Should petitioner receive the above mentioned 600 acres, there will remain due to him 900, but in the event of his not getting a grant of No. 33, there will remain 1100 acres due to complete petitioner's land to 3000 acres for his military services during the American War. Ordered that the remainder of petitioner's military lands be made up to him agreeable to the prayer of his petition except it shall appear upon reference to the Deputy Surveyor at York that J. Dainty, deceased, has improved upon lot 33, in which case the part of that lot ordered to him by a former Order of Council cannot as yet be granted away; and referred in consequence to the Surveyor General to make up the quantity to the petitioner in Flamborough as prayed for.

Alexander Chisholm, Lieut. late Garrison Battalion. Stating that he has resided in the Province of Lower Canada for the space of ten years but has not as yet obtained any of His Majesty's waste lands, and praying for such a portion of land as his rank may entitle him to. Ordered that an appropriation of 2000 acres be made by the Surveyor General for the petitioner, and a grant issue in course when the petitioner comes into this Province to reside.

Daniel McIntire. Stating that he has received 200 acres in addition on account of a very swampy lot, and praying to have the same confirmed in Council. Ordered that the 200 acres ordered by the Administrator to the petitioner, in addition, be confirmed.

William Claus. Stating that he served during the American War as a subaltern in Sir John Johnson's Regt., that he has received 500 acres of land and praying for the residue. Prayer granted.

John Philips. Stating that he served in Sir John Johnson's Regt. for the space of five years, and praying for a town lot. Rejected, the petitioner having already received a grant of 300 acres.

Lieut. Daniel Servos. Stating that he has received 800 acres of land, and praying for the residue he may be entitled to as a reduced officer; also praying for family land for his wife and five children, four of whom are above ten years of age. Ordered that the remainder of the petitioner's claim as a reduced Lieut. be made up to him and family lands for a wife and four children, if not granted before, for which reference to be had to the Surveyor General.

Catharine and Magdalane Servos. Stating that they are daughters of Daniel Servos who served during the American War as an officer in His Majesty's service, that they have not as yet received any land, and praying for such a portion as may be deemed meet. Ordered 200 acres each as the daughters of a loyalist.

John Green. Stating his attachment to His Majesty's service during the American War, his having built a grist and saw mill for the benefit of the inhabitants of this Province, that he has sons capable of improving lands, and praying for a portion thereof on the River la Tranche. Petitioner further prays for the 1st lot in the broken front in the 7th township. Ordered that the Surveyor General report on the lot 1 prayed for by the petitioner and, in consideration of his being an old and useful settler, ordered 400 acres in addition to former grants.

David Betron. Stating that his father lost his life at the taking of Niagara Fort, and that he has received only 200 acres of land, that he has a wife and nine children living with him in the Province, and praying for an addition to the lands he has received. Though the petitioner has the usual bounty extended to new settlers, the Board in consideration of his large family orders him 200 acres in addition.

David Jones, of Barton. Stating that he came into the Province in the year 1787 with a wife and five children, that he has received lands for himself but none for his family, and praying for family lands. Ordered his family lands being 300 acres if not granted before.

Elijah Ferries. Stating that he has resided for two years in the Province, is by trade a cooper, and praying for lands. Prayer of petition granted for 200 acres.

John Cogden. Stating that he served in the Royal Yorkers during the American War, that he had a wife and one child previous to the reduction in 1783, and praying for his own and family lands. When the petitioner actually brings his family into this Province, and thereby evinces his intention of becoming a settler, lands will be given him as a soldier, though a discharge or some better proof of his being a prisoner when the regt. was disbanded is necessary to prove that he was not a deserter.

Amos Gay. Praying for lands as a settler. Ordered 200 acres if not granted before.

John Costolo. Stating that his father served during the American War in Jessup's Corps of Rangers, that he was active in the defence of Quebec against General Montgomery, that petitioner's father died at Montreal in the year 1781. Praying that the portion of land his father might have been entitled to may be allowed to him. Soldiers having died before their arrival in this Province have no claims to land in it; but the Board orders 200 acres to the petitioner in addition as a sailor and likely to be of use in that capacity.

James, John, Abraham and Walter Clendenning. Stating that they are sons of the late James Clendenning, late a soldier in Butler's Rangers, that he died after the war without receiving any lands, and praying that the portion he was entitled to may be allowed to them. Ordered 300 acres to the petitioners in right of their deceased father.

Patrick White. Praying for lands as a settler. Ordered 200 acres.

Peter Caine. Stating that he received a grant of 400 acres of land from His Excellency, Lieut. Governor Simcoe, 8th July, 1794, which petitioner had the misfortune to lose, and praying to be confirmed in said grant. Ordered that a warrant of survey issue to the petitioner on the Order of Council dated 8th July, 1794.

Peter Caine. Stating that he is married to the daughter of a loyalist (Christopher Servos), that she has not as yet received any land, and praying for a portion in her right. Ordered 200 acres to the wife of the petitioner as the daughter of a loyalist, if not granted before.

John Jones. Stating that he served during the greatest part of the American War in Butler's Rangers, that he has never received any land, and praying for the proportion allowed to soldiers. Ordered 300 acres as a soldier if not granted before.

Joseph Quarry. Stating that he served under Capt. Brant during the American War, and praying for an allowance of land. Ordered 300 acres as a soldier.

Adam Bowman, Junior. Stating that he is the son of a loyalist who served during the American War, that petitioner was too young to bear arms though he accompanied his father, that he is now of age to improve and settle lands, and praying for a portion thereof as a settler. Ordered, in consideration of petitioner's father's merits and application, that 200 acres be appropriated for him until he comes of age.

Adjourned.

4th February, 1797.

Council Chamber, at Newark.

Present: His Honour Peter Russell, Esq., Administering the Government; Hon. John Elmsley, Chief Justice; Hon. David William Smith.

Read the following petitions:

David McFall. Praying for lot 5 in front of the township of Walpole on the River Nonticoke, being a mill seat. The Board order that the mill seat prayed for with forty acres around it be granted to the petitioner reserving to the Crown the remainder of the lot 5 in front of the township of Walpole on the River Nonticoke, the Acting Surveyor General having reported to the Board that he had His Excellency the Lieut. Governor's directions to reserve that lot on account of the lime stone.

James Whitton. Stating that he came from England during the American War with his father, a serjeant in the 20th Regt. and who was killed in the battle of Still Water, that he has been for several years a resident in this Province, and praying for land as a settler. Ordered 200 acres as a settler, and 200 acres in addition for petitioner's services at the Miamis.

James Elliott and Andrew Johnston. Praying for lands as settlers. Ordered 200 acres.

Samuel Street. Stating that having been many years in possession of lots 2 and 3, with the broken fronts attached thereto, in the township of Newark, and being entered for the same in the Surveyor General's office at Quebec, prays that the Surveyor General may be directed to give such description of the same as will enable the Attorney General to make out the title deeds. Ordered that the Surveyor General assigns to the petitioner as much of the lots prayed for as are without the reserve laid off by the engineer, which reserve cannot be incroached on before it is taken off by the Commander-in-Chief. If the petitioner has any objection to Chisholm Lines as sent from the Surveyor General's office at Quebec he must enter his caveat.

Isaac Swayze. Stating that he purchased from the Hon. Robert Hamilton, Esq., as the attorney of Mrs. Deborah Guthrie, all the estate, right, and title of the said Deborah to the following lots of land in the township of Newark, viz., 20, 21, 26 and 27 in the first and second concession, that he is desirous to surrender the same to Government in order that No. 21 may be re-granted to John McFarlane, No. 26 to Andrew Heron, and the remaining two to himself, and praying that the surrender may be accepted and grants issued as above specified. The holder of the deed to be surrendered must produce his powers from the original grantee to surrender it before it can be accepted.

W. D. Powell, Junior. Praying for a town lot at York. Ordered when the office moves to York.

Aaron Stevens. Stating that he was Commissary in the Indian Department during the war, that his late father was interpreter in the same department and his brother secretary therein, that both died since the peace without having received any lands, that he has a wife and six children, two of whom were born before the year 1789, that he has received but 200 acres of land, and praying for an addition thereto. Ordered 300 acres in addition, in consideration of petitioner's situation and services; 150 acres as family lands if not granted before, and 200 acres to the petitioner's wife, if the daughter of a U.E. Loyalist.

Anne Sutton, widow of John Sutton, loyalist. Stating that she is lately come into the Province with her family consisting of five sons and three daughters, the eldest of whom is nineteen years of age, that she has a good stock of cattle and is capable of improving land, and praying for such a quantity thereof for herself and family as may be deemed meet. Ordered four hundred acres in consideration of her bringing so large a family into the Province.

James Thomas, of the township of Newark. Stating that he served during the late war in Sir John Johnson's Corps, that his father served His Majesty upwards of thirty years in the 44th and other Regts., that he settled very early in the said township by order of Colonel DePeyster and Major Campbell on 130 acres of land, which he has considerably improved, but though he has repeatedly applied to the Land Board he has never yet received a grant for the same or other lands which as a soldier he may be entitled to, and praying to be confirmed in his possession, and for an additional portion for himself and family, consisting of a wife and two children. Ordered that lot 110 be described for James Thomas, not precluding Daniel Cassadey or any other person from filing a caveat; also ordered that the lands received by petitioner shall be made up three hundred acres.

Asa Simmonds. Stating that he has lately come into this Province to become a settler therein, that he is married to the daughter of a loyalist, and praying for a grant of land. Ordered 200 acres on the petitioner's bringing his family into this Province.

Isaac Davis. Stating that he has received 400 acres of land and praying for an addition thereto. The petitioner has already received all the land he was judged worthy of.

John Jones, late serjeant 60th Regt. Stating that he has received three hundred acres of land, and praying for the residue as a reduced serjeant, and such further grant for his mother-in-law and wife as may be deemed proper. Ordered 200 to petitioner's wife, the daughter of a loyalist, if not granted before; and 200 acres in addition to the 300 he has received when he produces a certificate that he was actually discharged from the 60th Regt.

Lidia Haines. Stating that she is the daughter of a loyalist. Praying for a grant of land, having never received any. Ordered 200 acres as the daughter of a loyalist if not granted before.

Alexander Gardner. Stating that he served His Majesty during the American Rebellion, settled in this Province where he has resided for several years, that he purchased a dwelling house at the landing place of Fort Niagara, which His Excellency the Lieut. Governor some time since found it necessary to raze and take away, that petitioner was given to understand that his application to Council for 1200 acres would be attended to, and praying that the 600 which he has received may be completed to that quantity. Ordered that the grants made to the petitioner shall be made up 1200 acres in consideration of the facts set forth in his petition.

George Milmine. Stating that he is the son of one of the earliest settlers in Canada, where his father for many years carried on extensive commerce until reduced by the sudden revolution of the markets at the close of the war, which has obliged petitioner to seek a livelihood by farming, and praying for such a grant of land as may be deemed expedient. Ordered, in consequence of the facts set forth in this petition and the strong recommendation of Mr. Justice Powell, 400 acres to the petitioner.

Adam Vrooman, late serjeant in Butler's Rangers, and Captain in the Lincoln Militia. Stating that he has received his military allowance of land for which he is thankful; that his brother who was also a non-commissioned officer died since the peace and left his right to petitioner, but having made only a nuncupative will, petitioner cannot press on this score, or on that of his mother who died in 1793, but he is emboldened to make his application for having brought into this Province a number of men to have entitled him to a commission during the rebellion, and praying for an addition to the lands already received. Ordered that in consideration of the loyalty and services of the petitioner as set forth in the certificates annexed, the grants to the petitioner be made up one thousand acres of land.

John McFarland. Stating that he has received 500 acres of land and praying for an addition thereto. Nothing appearing in this petition more than what appeared to the Board on the 29th of July, 1795, when 500 acres were granted to petitioner, the Board does not see any additional cause for adding to that donation.

Gustavus Secheverell. Praying for land as a settler. Ordered 200 acres.

Herman Hosteder. Stating that he has received 200 acres of land, and praying for family lands for his wife and children. Ordered 200 acres to the petitioner's wife as the daughter of a loyalist. Not entitled to family lands.

Read the Surveyor General's report on John Green's petition. Ordered that the Surveyor General give the usual notice to know whether Peter Hare or his heirs have claims to lot 1 prayed for by John Green.

Adjourned.

7th February, 1797.

Council Chamber, at Newark.

Present: His Honour Peter Russell, Esq., Administering the Government; Hon. John Elmsley, Chief Justice; Hon. David William Smith.

On motion of the Acting Surveyor General,—ordered that whenever and so often as any person or persons are not considered by the Council as fit objects for His Majesty's bounty in lands, the Clerk of the Council is to transmit a list of their names without delay to the Acting Surveyor General who is hereby directed not to locate them or any of them upon the recommendation of any person for whom appropriations have been made of tracts or townships.

Read the following petitions:

Hannah Showers, widow of Michael Showers, late of Butler's Rangers. Stating that her husband died last spring, that he received 600 acres of land which had been promised to him by His Excellency the Lieut. Governor as the first settler, that her said husband came into the Province in the year 1778 with a family consisting of petitioner and seven children, that in the year 1787 the number of children was increased to ten, all now living and in the Province, and praying for such a portion of family lands as may be deemed meet: Michael Showers, as soldier, 300 acres; wife and 10 children (family), 550 acres, or 850 acres. Ordered that the quantity of land wanting to make up the above eight hundred and fifty acres as military and family lands be granted to the petitioner and referred to the Surveyor General for examination.

John Coon. Stating that he came into the Province in the year 1778 with his father where he has resided ever since, and praying for land. Ordered 200 acres.

Robert Forrester, Benjamin Ashton, James Brown, and James Forrester. Praying for land. Being deserters from the United States their petition rejected, but open to further application; and the Clerk of the Council directed to signify to the Surveyor General that the petitioners shall not be admitted as settlers in any of the appropriated townships.

Isaac McMichael. Stating that he served in the Royal Navy on board the *Quebec* frigate commanded by Capt. Mason, that he also served in the Q.M. General's Department under Major Van Alstine, that he has lost his discharge but can adduce proofs of his services, and praying for the portion of land usually given to people of his description. The petitioner to produce a discharge or a certificate from Major Van Alstine before his petition can be taken into consideration.

Magdalane Richardson. Stating that she is daughter of John Askin, Esq., of Detroit, and wife of Mr. Robert Richardson of the Queen's Rangers, has two children, and praying for land. Ordered 800 acres.

Isabella McNabb. Stating that she is niece of Captain Angus McDonell of the Royal Yorkers, and wife of John McNabb, Esq., has resided six years in the Province, and praying for land. Ordered, in consideration of petitioner's connections and present situation, four hundred acres.

Jacob Ball, son of Lieut. Peter Ball. Praying for land. Ordered 400 acres.

Amos Merit. Praying for land as a settler. Ordered 200 acres.

Jacob Fisher. Stating that he served under Colonel Bouquet as a non-commissioned officer in America during the whole of the old French War, in which he was severely wounded; that he afterwards settled in Pennsylvania, where he remained the whole of the American War, that petitioner came into this Province in the month of May last, and brought in a wife and eight children with their families, making in the whole 22 persons, that His Excellency Lieut. Governor Simcoe had been pleased to direct a location for him and his sons who may be of age and shall come in of 200 acres each, that his sons John and Jacob, and his sons-in-law, Jacob Gomer and Nicholas Cover, have been located in that quantity of land each. Praying to be confirmed therein, and for such further addition to 200 acres as may be deemed meet. Ordered that the lands on which the petitioner, his two sons, and two sons-in-law are located shall be confirmed to them and that a warrant of survey issue for 200 acres in addition to the petitioner in consideration of the large family which he brought into this Province.

David Ramsay. Stating that at the reduction of Quebec and Louisburgh he served in the Royal Navy, and during the remainder of the war on board of private armed vessels, that in the years 1764 and 1765 he served on Lake Ontario, and praying for a proportion of land according to his different services. Ordered, in consequence of the allegations set forth in this petition and confirmed by a number of authentic documents, that the petitioner be granted twelve hundred acres including former grants.

Joseph Kinsela. Stating that he suffered much for his loyalty during the American War in person and property, that he never received any compensation for the loss of his property, which was considerable, that he is desirous of removing his family into this Province, and praying for such a proportion of land for himself and them as may be deemed meet. In consequence of the respectable recommendations and certificates produced by the petitioner, the Board order that upon the petitioner and his family becoming actually settlers in this Province, they shall receive: the petitioner 600 acres, and each of his children 200 acres on their coming of age.

Harmonus Van Alstine. Stating that he is the son of a loyalist and praying for land. Ordered 200 acres as the son of a U.E. Loyalist.

William Tonguy. Stating that he served in the Marine Department on Lake Erie, and has been regularly discharged, and praying for the proportion of land usually granted to people of his description. The petitioner has already received his portion of land in Pierce's township.

William Peters. Praying for land as a settler. When the petitioner has been resident in this Province twelve months, and produces proper certificates of good behaviour, his claim to land will be taken into consideration.

Archibald Thompson. Stating that he has received 200 acres of land for himself and 50 acres each for his wife and five children, that his family now consists of a wife and seven children, and praying for a further grant of land. Ordered to make up the lands already granted 1200 acres.

John Thomas. Stating that he served in the 8th Regt. and has been regularly discharged, and praying for land. Ordered 300 acres as a discharged soldier.

Jacob Misner. Stating that he has received 200 acres of land and praying for 100 in addition. The petitioner has all the land he is entitled to.

Adjourned.

18th February, 1797.

Council Chamber, at Newark.

Present: His Honour Peter Russell, Esquire, Administering the Government; Hon. John Elmsley, Chief Justice; Hon. David William Smith.

Read the petition of Alexander McKee, William Caldwell, and Mathew Elliot of Malden, in the Western District. Stating that for upwards of thirteen years past they have possessed a lot of ten acres each in front, by twenty in depth, in the township of Malden, that so late as June last they were confirmed in said possession by the Deputy Surveyor of the district running the lines of the said lots in conformity to an Order of Council for that purpose granted, that in the month of January, 1793, they were nominated patentees of the said township, which patent has never yet issued, and praying to be confirmed in their appointment of patentees, and in the possession of their lots. Ordered that warrants of survey issue to Colonel McKee and Capt. Elliot for 1000 acres each in the township of Malden including and in the rear of the front lots 4 and 5 which they now occupy; and for 800 acres to Capt. Caldwell in rear of the front lot 3 which he occupies, but no patent can as yet issue to him for that lot until communication can be had with the Commander-in-Chief respecting the extent of the military reserve opposite Bois Blanc. Colonel McKee, Captains Caldwell and Elliot are to be considered by the Surveyor General as trustees for the township of Malden, and he is to receive their recommendations for lots therein not exceeding 200 acres to each individual for the space of two years from the first of June next. The reserves for the Crown and support of a Protestant Clergy in respect of this township to be made in the 6th, 7th, and 8th concessions.

Adjourned.

21st February, 1797.

Council Chamber, at Newark.

Present: His Honour Peter Russell, Esq., Administering the Government; Hon. John Elmsley, Chief Justice; Hon. David William Smith.

Read the petition of William Caldwell, Esq., of the township of Malden in the Western District. Stating that on the 29th of December, 1788, His Excellency Guy, Lord Dorchester, and the Hon. Executive Council of Quebec were pleased to order a survey of a certain marsh in the said township of Malden for your petitioner's sons, William and James Caldwell, which survey has not as yet been effected. Prays that a survey may be made, and that your petitioner's sons may be confirmed in the same. Ordered that a survey be made.

Adjourned.

25th February, 1797.

Council Chamber, at Newark.

Present: The Hon. John Elmsley, Chief Justice, and Hon. David William Smith.

Read the following petitions:

John Thatcher. Praying for a further grant of land. On producing a certificate from Isaac Swayze, Esq., recommended for 150 acres as family lands.

Peter O. Carr. Praying for land in right of his wife, the daughter of a U.E. Loyalist. The wife of petitioner recommended for 200 acres.

John Felker. Praying for land in right of his wife, the daughter of a loyalist. Certificate of petitioner having married the daughter of a loyalist wanting.

Richard Davies. Stating that he served during the space of eighteen years in different regiments during the American War, viz., the 53d, 29th, and 5th, that he has lost his discharge, and praying for lands. The discharge must be produced.

John Harret. Stating that he came into the Province in the year 1787 with a wife and one child, settled and improved lots 28 and 29, second concession, Fort Erie Township, praying to be confirmed in the same and for such further addition as may be deemed meet. Recommended for confirmation in the lands petitioner already possesses and 100 acres more as family lands.

Benjamin Johnson. Praying for land as a settler. Recommended for 200 acres.

Frederick Markle. Stating that during the late war he served in Butler's Rangers, that he has received 100 acres of land, that he is married to the daughter of a loyalist, has six children, three of whom were born before 1789, and praying to have his military lands completed, and for family lands. Recommended for 200 acres to complete his military lands to 300 acres; 200 acres to him as family lands and 200 acres to his wife, the daughter of a loyalist.

Elizabeth Hazlor. Praying for land. Recommended for 200 acres on her coming of age or being married.

Joseph Merrit. Stating that he came into the Province in June, 1793, and brought with him a family consisting of a wife and eleven children, besides grand-children, that he was directed to certain vacant lands which are since discovered to be in the township of Caistor, where he has settled and made improvements long before he knew that that tract was appropriated to Mr. Dean. Praying to be confirmed in the lot he possesses, and for an addition thereto. Deferred till after 1st June, 1797, but the lot to be reserved for petitioner in case the township of Caistor should be thrown open.

George Shuman. Stating that he has served His Majesty, has received 200 acres of land, that he has a wife and eight children, five of whom were born before 1789, praying for 100 acres in addition and for family lands. Petitioner cannot have any military lands as he does not produce his discharge. Recommended for 300 acres as family lands.

Israel Burtch. Stating that he has been eight years in the Province, has improved and cultivated the lands granted to him by Government, and praying for a further grant. The Council would willingly accede to the prayer of the petition, if it did not break in upon general rules.

Casan Corus. Stating that he served His Majesty from the year 1771 till the year 1783 in several regiments, that he has received 300 acres of land, and praying for an addition thereto. The petitioner has received all the lands he is entitled to.

John Henry. Praying for land as a settler. In consideration of the respectable character of petitioner's son, recommended for 200 acres as a settler.

George Bradshaw. Praying for family lands. Recommended for 200 acres as family lands.

George Wilson. Stating that he has received the donation of land usually granted to British subjects. Praying for an addition thereto, and for a town lot at Newark. The petitioner has received all the land he appears entitled to, but may have a town lot.

Thomas Wilson. Stating that he came into the Province in the year 1788 with his wife and four children, has received 200 acres of land, is married to the daughter of a loyalist, and praying for land for his wife and children. Recommended for 250 acres as family lands, and 200 acres to his wife, the daughter of a loyalist.

Robert Campbell, late Serjeant-Major, Butler's Rangers. Stating that he has received 300 acres of land, is married to the daughter of a loyalist, has eight children, four of whom were born before the year 1789, and praying for the remainder of his military land, and land for his wife and family. Recommended for 200 acres military lands, 250 acres family lands, and 200 acres for his wife, the daughter of a loyalist.

Samuel Cassadey. Praying for lot 54 in the town of Newark. Granted, if vacant.

John Smith, Senior. Stating that he came into the Province in the year 1786 with his wife and nine children, that he has received 450 acres family lands, and praying for 50 acres in addition. Recommended for 50 acres family lands in addition.

Valentine Scram. Stating that he served in Butler's Rangers during the late war, has received 200 acres of land, is married to the daughter of a loyalist, has two children born before the year 1789, and praying for the residue of his military lands, and lands for his wife and family. 200 acres granted to Hannah, the wife of Valentine Scram. Certificate for family lands and discharge wanting.

Mily and Ruth Fairchild. Praying for land as U.E. Loyalists. 200 acres granted to Mily Fairchild, and 200 to Ruth Fairchild as daughters of loyalists.

James Crawford. Stating that he settled in the Province in the year 1788, has received 300 acres as a discharged soldier, and praying for 50 acres family lands for his wife. Recommended for fifty acres as family lands.

John Meyers. Praying for lands for himself as a soldier, and for his wife as the daughter of a loyalist. Petitioner's wife, Mary Meyers, recommended for 200 acres as the daughter of a loyalist.

Eve Vanderbarrow. Praying for land as the daughter of a loyalist. Recommended for 200 acres as the daughter of a loyalist.

Joseph Lane. Praying for lands as a loyalist. Petitioner must produce certificates of the facts stated.

Edward Hagerty. Praying for lands as a settler. Deferred till petitioner has produced certificates of good behaviour and of being qualified to go on land.

Mary Turney, wife of Lieut. Turney, late Butler's Rangers. Praying for lands. Petitioner is recommended for 400 acres.

George Turney. Stating that he served during the late war as a cadet in Butler's Rangers, that he has received 200 acres of land, and praying for an addition thereto and a town lot at Newark. In consideration of the very distinguished merit and eminent services of petitioner's father, petitioner's former grants to be made up 1200 acres.

George, Jenny, and Nancy Turney. Praying for lands as the son and daughters of Lieut. Turney of Butler's Rangers. Jenny and Nancy Turney recommended for 200 acres each. George Turney's petition is already answered.

Peter McMicking, late of Butler's Rangers. Stating that since the reduction of said corps he has zealously served in several civil capacities without fee or reward, that he has received 500 acres of land for himself and family, and praying for an addition thereto. In consideration of the very spirited and zealous conduct of the petitioner in his office of high constable, he is recommended for 1000 acres including those already received.

George Campbell. Praying for family lands. Recommended for 200 acres.

James Middaugh. Praying for a town lot at Newark. Petitioner does not appear to have any claim to a town lot.

Mary Bradt, alias Brink. Praying for lands as the daughter of a loyalist. The certificate from Mr. Ball is insufficient.

James Secord. Stating that he has received 200 acres, and praying for an addition thereto. Recommended for 600 acres including what he has already received.

Thomas Done. Praying for land as a settler. Deferred until petitioner has been 12 months in the Province.

Margaret Whitney. Praying for land as the daughter of a loyalist. Recommended for 200 acres as the daughter of a loyalist.

Roger Blann. Praying for land as a settler. In consideration of petitioner's good character, petitioner recommended for 200 acres.

James McNabb. Stating that he has received 200 acres, and praying for an addition thereto. Lands already granted to be made up 600 acres.

Robert and Adam Spencer. Stating that they have received 200 acres each, and praying for an addition thereto. Petitioners have received all the lands they are entitled to.

Benjamin Middauch. Praying for a town lot at Newark. Petitioner does not appear to have any claim to a town lot.

Thomas Gilliam. Praying for lands as a settler. Petitioner not having resided a year in the Province cannot have a grant of lands.

John Woolman. Praying for a grant of land for himself and family. Petitioner is not yet resident in the Province.

John Milton. Stating that he served under General Knyphausen during the American War, that he has a wife and five children, and praying for 300 acres of land. Recommended for 200 acres as a settler when he brings his wife and family into the Province, and in the meantime to have a lot of that number of acres appropriated for him. [Rescinded later on.]

Earnest Martin. Stating that he settled in the Province with his wife and one child before the year 1789, that he has received 200 acres of land, and praying for an addition thereto. Recommended for 100 acres family lands.

Eve Bradt, widow of the late Arent Bradt. Stating that in the year 1785 she accompanied her husband into this Province with her family consisting of five children, and praying for family lands having never received any. Ordered 300 acres as family lands if not already granted.

Hon. J. Elmsley. Praying for a town lot at Newark. Recommended to His Honour to grant the same.

Sarah Haines. Praying for lands as the daughter of a U.E. Loyalist. Recommended for 200 acres when petitioner comes of age or is married.

Jonathan Mathews. Praying for family lands and land in right of his wife, the daughter of a U.E. Loyalist. Recommended for 100 acres family lands, and his wife for 200 acres as the daughter of a loyalist.

Robert Kerr. Praying for family lands for his children. Petitioner's children will receive land when they come of age.

Philip Young. Stating that he has a wife and six children, three of whom were born before the year 1789, and praying for family lands, having never received any. Recommended for 200 acres as family lands.

Mary Price. Stating that Gasper Towser and Ludovik Towser served in Butler's Rangers and praying to be allowed to locate lands in their right. Mary Price has no claim.

Joseph Hilts. Praying for lands as a loyalist. Joseph Hilts must produce a certificate.

Solomon Secord. Praying for lands for his children. The petitioner's children will receive lands as they come of age.

Thomas Rice. Stating that he came into the Province in the year 1788 with a wife and four children, that he received a ticket for two lots and a half, amounting to three hundred and fifty acres, and praying to be confirmed therein and for 100 acres family lands in addition. Ticket confirmed, and petitioner recommended for 100 acres additional lands.

Adjourned.

7th March, 1797.

Council Chamber, at Newark.

Present: His Honour Peter Russell, Esquire, Administering the Government; Hon. John Elmsley, and Hon. David William Smith.

Read the following petitions:

John Troyer. Stating that he has made considerable improvements on lot 20 in the 1st concession of Walsingham and praying to be confirmed therein. As it appears that John Troyer is an industrious man and has erected a grist mill and made other improvements on lot 20 in the front concession of Walsingham, and that John Foryea, a soldier who claims half that lot, has made no improvements thereon but has even sold without authority lot 22 which he had before sat down on, ordered that notwithstanding any former proceedings the Surveyor General be directed, in consideration of the premises, to assign the whole of lot 20 in the front concession of Walsingham to John Troyer; and the same number in the 2nd concession be assigned to John Foryea with one hundred acres more to complete his military lands.

Robert Kerr, Esq. Praying for family lands. Ordered 200 acres family lands if not granted before.

Solomon Secord. Praying for family lands. Ordered 150 acres as family lands if not granted before.

John Walker, serjeant, Queen's Rangers. Stating that he served in the 71st Regt. as a serjeant during the late war in America and was several times wounded, praying for land as a reduced serjeant. Ordered 500 acres to be appropriated to the petitioner in the township of Toby Cock, but no deed to issue till he is discharged.

Read the Surveyor General's report on Tredwell's claim to Longueille Seigneurie. Nathaniel Tredwell's title to interfere with the lands in this Province must be ascertained before he can be permitted to make surveys or run lines in any township or seigneurie.

Read the Surveyor General's report relative to disputes. Referred to a Committee of Council.

John Backhouse, Esqr. Praying for an additional grant of lands. Ordered 600 acres in addition to make in the whole 1200 acres as a magistrate in this Province.

Letitia Crayford. Praying for a grant of land as widow of the late Richard Crayford, Captain in the New Jersey Volunteers who died since the war. When the petitioner comes into the Province her petition will be read in Council.

Francis Goring. Stating that he came to Quebec in the year 1776 in the Q.M. General's Department, that he has been many years settled in this Province, has a numerous family, has received 400 acres of land and praying for an addition thereto. Ordered 300 acres as family lands and, in consideration of petitioner's services and character, 300 acres in addition to former grants.

Benjamin Canby. Praying for an additional grant to the 200 acres he has already received. The petitioner having declared to the Council that the 600 acres he received with his mill were granted as belonging to the mill, and sold with it, and that he lost money by that speculation; ordered that in consequence of his being an active, useful and industrious settler, 400 acres be granted to him in addition.

Benjamin Canby. Praying to be continued in the lease of the ferry at Queen's Town. Referred to a Committee of Council to consider how the ferry at Queen's Town may be regulated and leased for the public benefit, and report.

Thomas Hind. Stating that he has received 200 acres of land, and praying for family lands and an additional quantity for himself in the township of York. It being a resolution of Council that additional grants shall not be made to individuals without very sufficient reasons being assigned, the petitioner does not appear to be entitled to an exception; but in consideration of his designing to erect a brewery at York, ordered that 200 acres be appropriated in that township to the petitioner on that condition but not to be confirmed by deed until he has actually erected a brewery agreeable to his promise.

Allan McLean, Esqr. Praying for family lands. Ordered 600 acres to Mrs. Hariet McLean as the wife of a barrister.

Richard Davis. Praying for lands as a reduced soldier. The certificate produced from Mr. McLean is not a compliance with the former order.

Jacob Pearton. Praying for lands as a settler. Ordered 200 acres to be immediately appropriated but no deed to issue until petitioner returns from the States.

Roger Bradt. Praying for an addition of land to the 100 acres he has already received. Ordered 200 acres in addition in consideration of the worth of his father.

Charles Seguin. Stating that he served at Quebec during the siege thereof by the American Army, that he has received 200 acres of land and praying for an addition. Ordered 100 acres in addition to the 200 acres he has received to complete his military lands.

William McKay. Praying for lands as superintendent of inland navigation at Kingston. No additional grants can be made to half pay officers without His Majesty's permission.

Abraham Phenix. Praying for an addition of land to the 200 acres already received. It does not appear that the petitioner has a claim to more lands than what has been already granted him.

William Vanderlip. Stating that his father died since the end of the American War and was regularly discharged from Butler's Rangers, and praying for his father's lands, he being his only son in this Province. Ordered that the lands

Frederick Vanderlip would have been entitled to as a soldier, had he been now living, be granted to his surviving children, if not granted before. (Signed) P.R.

John Darley. Praying for land at Toronto as a settler. Ordered 200 acres.

Philip Pember. Praying for lands as a reduced corporal. Ordered 400 acres as a corporal in the service if not granted before.

Christopher Hagerman. Stating that during the American War he had two sons in the service of Government, and that he suffered greatly in the loss of his property, and praying for 1200 acres of land. Enquiry to be made what lands have been granted to petitioner.

William Rainy. Praying for lands as a settler. Ordered 200 acres.

Alexander Anderson. Praying for lands as a reduced soldier. Ordered 300 acres as a soldier if not granted before.

Robert McCauley. Praying for lands as a militia Captain at Carleton Island during the American War. Ordered that the lands granted to the petitioner be made up 1200 acres.

James Rankin, Junior. Praying for 500 acres of land. Ordered 200 acres.

John Cannon. Praying for lots 182 and 205 in the town of Kingston. Ordered to grant the prayer of this petition.

Charles Haslop. Stating that he served on Lake Ontario as a foremast man four years, as a gunner three years, and as mate five years, and praying for lands. Ordered 600 acres in the Midland District as near Kingston as possible.

Thomas Wellbank. Stating that he served as a quarter master in the first troop of horse raised in Philadelphia by Joseph Galloway, Esq., and praying for land. Ordered, in consideration of his services, 600 acres.

Nathaniel Lines. Stating that he has been employed in the Indian Department for a number of years during the American War and has continued in the same department ever since, and praying for lands as a reduced subaltern. Ordered that former grants be made up 1200 acres.

William McDonell. Stating that he has been in the service of Government since the year 1775, and the last twelve years has been employed as an assistant storekeeper, and praying for an addition to the 300 acres of land he has already received. Ordered that former grants be made up 600 acres.

John McLeod. Stating that he has been employed in the Commissary General's Department since the year 1787, has received 200 acres of land and praying for an addition. Ordered that former grants be made up 600 acres.

Jacob Stoner. Praying for land as a settler. Ordered 200 acres.

Cornelius Vanderbarrow. Praying for land as a settler. Ordered 200 acres.

Reuben Bacon. Praying for land as a settler. Ordered 200 acres.

Isaac Morse and his associates. Praying for a grant of a township which petitioner states to have been promised to him by His Excellency, Lieut. Governor Simcoe. The Board has ceased to order appropriations of large tracts. Individuals must bring forward their respective claims in their own persons.

Adjourned.

11th March, 1797.

Council Chamber, at Newark.

Present: His Honour Peter Russell, Esq., Administering the Government; Hon. John Elmsley, and Hon. David William Smith.

Read the following petitions:

Richard Flack. Praying for a town lot in Newark. Granted.

Edward McLauchlin. Stating several services performed by him in the years 1763, 1764 and 1778, and praying for land. The petitioner has already had his lands assigned him in Pierce's township.

William Shaw, Esq. Praying for an additional grant of land. The lands petitioner has received to be made up 1200 acres, being the portion extended to magistrates.

William Van Every. Praying for family lands and lands in right of his wife, a U.E. Loyalist. Ordered 150 acres as family lands, and 200 acres to Elizabeth Stevens, his wife, the daughter of a U.E. Loyalist, if not granted before.

Mary Robson. Praying for land in right of her deceased husband, a soldier in the 5th Regt. Inadmissible.

Archibald McLauchlin. Praying for lands as a disbanded soldier. Ordered 300 acres to the petitioner if not granted before, and he alive, of which enquiry to be made by the Deputy Surveyor of the Eastern District, and his lands to be assigned to him there.

Herman Hosteder. Praying for additional lands. Ordered 100 acres in addition.

Mary de Metrail, widow of Lieut. de Metrail, late of the 60th Regiment. Praying for his proportion of lands. The petitioner's husband having died before the commencement of the late war in America, and consequently not having served therein, could not have a claim to an officer's proportion of lands in this Province had he been now living, nor does the petitioner, as living out of the Province, come under that description to whom lands in it ought to be granted; but, in consequence of the recommendations of the petitioner to Lieut. Governor Simcoe, ordered 1200 acres to be assigned to her wherever her agent points out.

William Davidson. Praying for lands as a settler. Ordered 200 acres.

Donald McDonell. Praying for a town lot in Newark. Prayer granted.

Storm Vollock, late Butler's Rangers. Stating that he has received 200 acres of his military lands, and praying for the remaining 100 and a town lot in Newark. Ordered that his military lands be completed. The town lot refused.

Richard Hainer. Praying for family lands. Ordered 150 acres as family lands.

Albert Hainer. Praying for family lands, and lands in right of his wife as a U.E. Loyalist. Ordered 100 acres if not granted before as family lands and 200 to Catherine, his wife, the daughter of a loyalist, if not granted before.

Christian Bradt. Praying for family lands, and land in addition to 100 acres which he has received. Ordered 100 acres in addition if petitioner has not received more than 100, and 100 acres as family lands if not granted before.

Cornelius Vollock. Praying for land in right of his wife as a U.E. Loyalist. Ordered 200 acres to Eve Vollock, the wife of petitioner, as the daughter of a loyalist, if not granted before.

Margaret Bradshaw. Praying for land as a U.E. Loyalist. Ordered 200 acres to Margaret Bradshaw, the daughter of a loyalist, if not granted before.

Hugh and Martha McLean. Praying for an addition to the lands they have received. Ordered 200 acres in addition to former grants to the petitioner, Hugh McLean, and 200 acres to Mrs. Martha McLean.

Mary McGill. Praying for lands. Ordered 200 acres.

Gaty Litchmore. Praying for lands. Ordered 200 acres.

Justin Levis. Praying for lands as a settler. No lands to be granted to the petitioner for his insolence before this Board.

William Allan. Praying for an addition of land to 200 acres which he has received. Ordered 400 acres in addition to the 200 ordered before to put petitioner on a footing with other gentlemen of his description.

James Watson. Praying for lands as a settler. Ordered 200 acres.

William Pickard, late Butler's Rangers. Stating that he has received 100 acres of land, and praying for family lands and the remainder of his military lands. Ordered that the petitioner's military and family lands be made up to him if not granted before.

James Freel. Praying for lands as a U.E. Loyalist. Ordered 200 acres.

James Freel. Stating that his father served during the American War in the Forristers or Indian Department, that he died in the year 1784 without receiving any land, and praying for the proportion he might have been entitled to, he being the only son and heir. Ordered 300 acres to the children of the petitioner's father if not granted before.

David Adair. Praying for family lands. Ordered 200 acres family lands if not granted before.

David Robertson. Praying for lands in addition and a town lot at York. Ordered a town lot at York on the usual conditions.

Mary Bradt, alias Brink. Praying for lands as a loyalist. Ordered 200 acres to Mary Bradt, alias Brink, as the daughter of a loyalist.

Abraham D. Hendryx. Praying for lands as a settler. Ordered 200 acres.

Silvester Tiffany. Praying for lands. Ordered 400 acres as an assistant to the King's Printer.

Barbara Cox. Praying for lands as a loyalist. Ordered 200 acres as the daughter of a loyalist, if not granted before.

John Bowman. Stating that he has received a certificate for 400 acres of land, and praying to be confirmed therein, and for lands in right of his wife, the daughter of John Brown, a U.E. Loyalist. Referred to the Surveyor General to be confirmed in the 10th township, and ordered 200 acres to Eve Bowman, the daughter of a loyalist, if not granted before.

John C. Fox. Praying for lands as a settler. Ordered 200 acres if not granted before.

Christian Stickley. Praying to be confirmed in a lot containing 200 acres on which he is settled. Referred to the Surveyor General to be confirmed in his improvements not exceeding 200 acres.

Jacob Thomas. Praying to be confirmed in 300 acres of land on which he is settled. Referred to the Surveyor General to be confirmed in his improvements not exceeding 300 acres.

John Crow. Praying to be confirmed in 200 acres of land on which he is settled. Referred to the Surveyor General to be confirmed in his improvements not exceeding 200 acres.

Adrian Bradt. Praying for family lands, and for lands in right of his wife, a U.E. Loyalist. Ordered 200 acres to Sophia Bradt, the daughter of a loyalist, if not granted before.

John Clow. Praying for lands as a settler. Ordered 200 acres.

Benjamin Quick. Praying for lands as a discharged Ranger. Ordered 300 acres as a soldier if not granted before.

Mary Griffin. Praying for family lands for herself and ten children. Ordered 550 acres family lands if not granted before.

Robert Mayes. Praying for lands. The petitioner, being a soldier, to have lands when discharged.

Eleanor Thompson. Praying for lands as a U.E. Loyalist. Ordered 200 acres as the daughter of a loyalist if not granted before.

Mary Smith. Praying for lands as a U.E. Loyalist. Ordered 200 acres as the daughter of a loyalist if not granted before.

Samuel Taylor. Praying for family lands for his wife and three children. Ordered 200 acres in lieu of family lands and in consideration of his losses.

Ira Bissell. Praying for 200 acres of land in addition to 100 which he has received as a settler. Ordered 100 acres in addition.

Robert Spencer, late of Butler's Rangers. Praying for family lands and the remainder of his military lands, of which he has received 100 acres. Ordered 200 acres to complete his military lands, and 350 acres family lands if not granted before.

John Costolo. Praying for a town lot in Newark. Prayer of petition granted.

John McPherson. Praying for lands as a settler. Ordered 200 acres.

Thomas Tivy, Queen's Rangers. Praying to be confirmed in lands he occupies on the Toby Cock. Ordered to be confirmed in his improvements not exceeding 300 acres when discharged.

Joshua Miller. Praying for lands as a settler. Ordered 200 acres if not granted before.

Samuel Thompson. Praying for family lands and for lands in right of his brother, Capt. Andrew Thompson, who died in the year 1781. The claims for petitioner's brother's lands cannot be admitted.

Henry Staughmill. Stating that he served under General Knyphausen during the American War, and praying for lands. Ordered 200 acres if not granted before.

John Thompson. Praying for lands as a soldier. The petitioner has already received his lands in Pierce's township. No discharge appearing, his claim as a soldier not admitted.

Michael Hands, alias Henn. Stating that he has received 700 acres of land in which he wishes to be confirmed, and praying for family lands and lands in right of his wife as a U.E. Loyalist. Ordered that the land petitioner lives upon may be confirmed to him, not exceeding 200 acres, and referred to the Surveyor General to be completed in his military and family lands if not granted before: Military lands, 300; family lands, 200; and for his wife, the daughter of a loyalist, 200; a total of 700 acres.

James Marrigan. Praying for lands as a discharged seaman. Ordered 200 acres if not granted before.

Adjourned.

14th March, 1797.

Council Chamber, at Newark.

Present: His Honour Peter Russell, Esquire, Administering the Government, Hon. John Elmsley, and Hon. David William Smith.

The Surveyor General's report on lot 33, township of York, being read, ordered that lot 33, township of York, formerly ordered to Joseph Dainty be granted to Major Shank in part of his military lands.

Read the following petitions:

Andrew Bradt. Praying for a town lot in Newark. Ordered a lot in the town of Newark.

Irish John Wilson. Praying for an additional grant of lands. Ordered that the lands already ordered to the petitioner be made up 1200 acres.

Deborah Freel, widow of a soldier in Butler's Rangers. Praying for lands for herself and sons. Ordered 200 in addition to her lands under a Land Board certificate.

Samuel Cox. Praying for lands in addition as a military claimant. Ordered 100 acres in addition to cover his improvements on Chippawa.

David Price. Praying for lands as an Indian Interpreter. Ordered 1200 acres of land as an Indian Interpreter if not granted before.

Lieut. Paxton. Praying for lands in addition to 1200 acres which he has received. Ordered that the lands granted to the petitioner be made up 2000 acres as a Lieutenant in the Marine Service.

Lieut. Fleet. Praying for lands. Ordered 2000 acres as a Lieutenant in the Marine Department and having served in the Royal Navy during the war, if not granted before.

Jane Paxton, wife of Lieut. Paxton. Praying for lands. Ordered 200 acres as the daughter of a deserving servant of the Crown during the late American War.

Richard Davies. Praying for lands as a settler. Ordered 200 acres.

Francis McKay, late private, 42nd Regiment, has received 200 acres and praying for an addition thereto. Ordered that his military lands be made up to him.

Catherine Claus. Praying for lands for herself and children. Ordered 1200 acres as the wife of a Superintendent of Indians and Indian Affairs.

Edward Lafferty. Praying for lands as a settler. Ordered 200 acres.

James Crooks. Praying for a town lot in Newark. Ordered a town lot.

Peter Cain. Praying to be confirmed in a town lot at Newark which he holds under a Land Board certificate. Ordered to be confirmed.

James Macaulay. Praying to have his town lot exchanged. Permitted to take the petitioner's name from the town lot ordered him.

William McKay. Praying for lands. Ordered 600 acres when petitioner settles in this Province.

Alexander McKay. Praying for lands. Ordered 600 acres on petitioner's becoming a resident in this Province.

Christina Scott. Praying for lands as a U.E. Loyalist. Ordered 200 acres as the daughter of a U.E. Loyalist, if not granted before.

Sarah Dayton. Praying for lands as a U.E. Loyalist. Ordered 200 acres to Sarah Dayton, the daughter of a U.E. Loyalist, if not granted before.

William Dunbar. Praying for lands as a settler. Ordered 200 acres.

Jacob Morningstar. Praying for lands as a settler. Ordered 200 acres if not granted before.

Margaret Ryckman. Praying for lands as a U.E. Loyalist. Ordered 200 acres as the daughter of a loyalist if not granted before.

Charles Trump, a discharged gunner, Marine Department. Praying for lands in addition to 300 acres which he has received. Ordered 200 acres in addition as a gunner in the service to make up 500 acres in the whole.

Jane Sacheverel. Praying for lands in right of her deceased husband, John Sacheverel, a military claimant. The petitioner has received all the lands she can possibly have claim to, either in her own right or that of her late husband. Had the deceased left any children they would have been considered.

William Tully, serjeant, late Queen's Rangers. Praying for lands. Ordered 500 acres, the portion of a serjeant, to be now appropriated but no deed to issue until he brings his family into this Province to settle.

Elizabeth Hilts and Lidia Talman. Stating that they are the daughters of Joseph Price, a disbanded soldier, that they are married and had each a child before the year 1789, and praying for lands. Proofs wanting of the petitioners having brought children into this Province before 1789.

Adjourned.

17th March, 1797.

Council Chamber, at Newark.

Present: The Hon. John Elmsley, Chief Justice, and Hon. David William Smith.

Read the following petitions:

Mary E. Ball, wife of Jacob Ball, Senior. Praying for lands. Ordered 200 acres as the wife of an old magistrate.

Peter Ball. Praying for family lands. Ordered 200 acres for family lands.

Peter Artir. Praying for lands as a settler. Recommended for 200 acres.

Isaac Swayze. Praying for 300 acres of land for his son, Benjamin Swayze. An appropriation to be made of 300 acres to Benjamin Swayze, but no grant to issue until he comes of age.

Phebe Mayne. Praying for lands as a loyalist. Recommended for 200 acres as the daughter of a loyalist (U.E.).

Hannah Caldwell, daughter of Nicholas Outhouse. Praying for lands as a loyalist (U.E.). Recommended for 200 acres.

James Smith. Praying for lands as a discharged seaman and in right of his wife, a loyalist (U.E.). Recommended for 300 acres as an old seaman and 200 to his wife as the daughter of a loyalist.

James Thomas. Praying for family lands. Recommended for 150 acres family lands.

Polly Bessey. Praying for lands as a loyalist (U.E.). Recommended for 200 acres.

John Price. Praying for lands in right of his father, in right of his wife, a loyalist (U.E.), and for himself as a settler. Recommended for 50 acres in right of his father and 200 in his own right. His wife also recommended for 200 acres as the daughter of a loyalist.

Isaac Vollock, late Butler's Rangers. Praying for his military lands. Recommended for 300 acres as military lands.

Henry Chewt. Praying for a town lot in Newark. Petitioner has no claim to a town lot.

Michael Arthur, Presbyterian clergyman. Praying for lands. Recommended for 1200 acres.

John McDonell, Junior. Praying for lands as the son of a serjeant who served in Butler's Rangers. Recommended for 200 acres.

Ebenezer Hartwell. Stating that he has purchased lots 50 and 51 on the Chippawa, and praying to be confirmed in the same. Recommended for confirmation.

Hugh McLean. Stating that he is a reduced serjeant from the 40th Regiment, that he has received 400 acres of land and praying for an addition thereto. Recommended for 200 acres.

Mathew Camp. Praying for lands as a reduced soldier. The petitioner must produce a certificate of his having been regularly discharged.

John Stofle, late of Butler's Rangers. Stating that he has received 100 acres of land and praying for an addition thereto. Recommended for 200 acres to make up his military lands.

James Mitchell. Praying for lands as a settler. Petitioner is not yet entitled to land, but a lot may be appropriated for him until he brings in his family.

Patrick Mealey, serjeant in the Queen's Rangers. Praying for lands. Ordered an appropriation of 600 acres in Toby Cock to be confirmed by deed on the petitioner being discharged from the Queen's Rangers, viz., 200 acres including his improvements where he lives, and 400 acres where the Surveyor General can conveniently assign them.

William Hooten, corporal in the Queen's Rangers. Praying for lands. Ordered 400 acres to be appropriated to the petitioner in Toby Cock and confirmed by deed when he is discharged from the Rangers.

John Ansan, private, Queen's Rangers. Praying for lands. Ordered 300 acres to be appropriated to the petitioner in Toby Cock and confirmed by deed when he is discharged from the Rangers.

John Ross, late serjeant, 26th Regiment. Has received his proportion of lands, and praying for an addition thereto and a town lot at Newark. Recommended for a town lot but not entitled to any further grant.

Caty Ten Broeck, daughter of Capt. Ten Broeck. Has received 200 acres of land, and praying for 800 acres and a town lot in addition. Recommended for 200 acres in addition to those already received.

Nancy Ten Broeck, daughter of Capt. Ten Broeck. Has received 200 acres of land, and praying for 800 acres and a town lot in Newark in addition. Recommended for 200 acres in addition to those already received.

Paul Crips. Praying for 200 acres of land. Recommended for 200 acres.

John Blacker. Praying for lot 2 in the 1st concession of Murray in right of his wife as a loyalist, and for 1200 acres for himself. Recommended for 1200 acres including those already received.

Mary W. Meyers. A Land Board certificate. Referred to the Deputy Surveyor of the district to be complied with if consistent with his general instructions.

Gideon Tiffany. Praying for lands. Recommended for four hundred acres.

William Chewett. Praying for lands in right of his wife. In consideration of petitioner's long and useful services, recommended for 200 acres to be granted to his wife.

Anna Cain. Praying for lands. Recommended for 200 acres.

Richard Cockrell. Has received 200 acres of land and praying for an addition thereto as Deputy Sheriff. The petitioner is too young in office to be at present entitled to any addition.

Philip Bender. Praying to be confirmed in lot 123 and that a deed for said lot may issue in his name. Granted.

Carsan Corris. Praying for a town lot in Newark. Petitioner does not appear to be entitled to a town lot.

Anna Hazen. Praying for lands in right of her first husband who was killed at the battle of Eutaw Springs. Petitioner does not appear to be entitled to any land.

William Vanderlip. Praying for a town lot in Newark. Recommended for a town lot in Newark.

Isaac Hurst. Praying for a town lot in Newark. Recommended for a town lot.

Daniel Young. Praying for family lands. Recommended for 350 acres as family lands.

Philip Medler. Praying for lots 7 and 8 in the 5th concession of township 10. Petitioner recommended for lots 7 and 8 in township 10 if it appears from the Surveyor's office that no other person has a prior or better claim.

John Ackman. Praying for lands in right of his wife as a U.E. Loyalist. Petitioner's wife recommended for 200 acres.

Thomas Waugh. Praying for lands in right of his wife as a U.E. Loyalist. Petitioner must produce a certificate that his wife is the daughter of a loyalist.

Philip House. Praying for family lands and lands in right of his wife as a U.E. Loyalist. Petitioner recommended for 150 acres as family lands, and his wife recommended for 200 acres as the daughter of a loyalist.

Peter McDonell. Praying for lands in right of his wife, daughter of Asa Holmes, as a U.E. Loyalist. Petitioner's wife recommended for 200 acres as the daughter of a loyalist.

Barney McIntee. Praying to be confirmed in the possession of lots 10 in the 3rd, 4th and 5th concessions of Louth, and for 300 acres in right of his father. Petitioner recommended for 200 acres including those already received. His father does not appear entitled to any land.

Elizabeth Pickard. Praying for lands. Petitioner is not entitled to any land.

James Wilson. Praying for family lands and lands in right of his wife as a U.E. Loyalist. Recommended for 150 acres as family lands. His wife recommended for 200 acres as the daughter of a loyalist.

John Reilly, Esq. Praying for lands as a magistrate. Recommended for 1200 acres including those he has already received in his own right.

Christian Riseley. Praying for family lands and lands in right of his wife, a U.E. Loyalist. Petitioner recommended for 100 acres as family lands, his wife, Kitty Riseley, recommended for 200 acres as the daughter of a loyalist.

Benjamin Wintermute, late of Butler's Rangers. Has received 150 acres of land, and praying for the remainder of his military lands and for family lands. Petitioner recommended for 100 acres as family lands and 150 acres to make up his military lands.

John Cain, Senior. Praying for a town lot in Newark. Recommended for a town lot.

Peter Wintermute. Praying for family lands. Petitioner recommended for 250 acres as family lands.

Philip Wintermute, late Butler's Rangers. Praying to have his military lands completed. Petitioner recommended for 300 acres including those already received.

Abraham Wintermute, late Butler's Rangers. Praying to have his military lands completed. Recommended for 200 acres to make up his military lands.

Henry Windecker, late Butler's Rangers. Praying for family lands and the remainder of his military lands having only received 250 acres. Recommended for 400 acres, i.e., 50 to make up his military lands and 350 family lands.

John Frelick, late Butler's Rangers. Has received 200 acres of land. Praying for the remainder of his military lands, for family lands and for lands in right of his wife as a U.E. Loyalist. Recommended for 300 acres (including those already received) as military lands and 150 acres as family lands. His wife recommended for 200 acres as the daughter of a loyalist.

Hannah Frey. Praying for lands as a loyalist. Petitioner must produce a certificate of her being a daughter of a U.E. Loyalist.

Martha Burch. Praying for lands. Recommended for 400 acres as the wife of a magistrate.

Janet McMicking. Praying for lands. The petitioner is said to be dead.

John Muirhead. Praying for lands in addition to 400 acres which he has received. Recommended for 200 acres in addition.

Henry Witner, late of Butler's Rangers. Praying for lands. Recommended for 300 acres as military lands.

Nathaniel Dennis. Praying for lands as a settler. Recommended for 200 acres.

John Depew. Praying for family lands. Recommended for 400 acres as family lands.

Basnet Dell. Praying for family lands. Recommended for 200 acres as family lands.

Jacob Decou. Praying for lands for himself and family. Petitioner recommended for 200 acres as a loyalist and 350 acres as family lands.

Charles Depew, as heir and administrator of his late brother, William Depew. Praying to be confirmed in 300 acres of land which his said brother possessed in Barton. Recommended that a deed issue to the petitioner as heir of his late brother William for No. 3 in the front, No. 3 in the first concession, and No. 3 in the second concession of the township of Barton, but this order not to preclude any other person claiming to be heir of William Depew to apply.

Henry Dell. Praying for lands in right of his brother who died in the year 1778. Petitioner's brother was not entitled to any land.

Peter Feero, late of Butler's Rangers. Praying for military and family lands, and lands in right of his wife as a U.E. Loyalist. Petitioner recommended for 300 acres as military lands. His wife recommended for 200 acres as the daughter of a loyalist.

Peter Feero. Praying for family lands. Recommended for 200 acres as family lands.

Isabella Fraser. Praying for lands for herself and six children. Petitioner and her children recommended for 200 acres each.

Polly Simons. Praying for lands as the daughter of a loyalist. Petitioner must produce a certificate of her being the daughter of a loyalist.

Joseph Smith. Stating that the lot he occupies is unfit for cultivation, and praying for an addition thereto. Petitioner is at liberty to exchange his lot for another, but does not appear entitled to any addition, but he may bring forward his claim again if he can support it better.

Solomon Skinner. Praying for lands. Petitioner must wait until he is of age.

Silas Secord, late serjeant in Butler's Rangers. Praying for family lands and to have the remainder of his military lands completed. Petitioner recommended for 500 acres military lands including those already received, and 200 acres as family lands.

Benjamin Frelick. Praying for a town lot in Newark. Petitioner does not appear entitled to a town lot.

W. K. Smith, Esq. Praying for lands in addition. Petitioner recommended for 1200 acres including those already received as a magistrate.

Elias Smith. Praying for 50 acres to complete his 200 acre lot and for lands in right of his wife as the daughter of a loyalist. Petitioner recommended for 50 acres to complete his family lands, and his wife recommended for 200 acres as the daughter of a loyalist.

John Stone, late King's American Dragoons. Praying for 100 acres of land to complete his military allowance and for lands in right of his wife as the daughter of a loyalist. Recommended for 100 acres to make up his military lands. Petitioner must produce a certificate of his wife being the daughter of a loyalist.

Charles Selleck. Praying for a town lot in York. Recommended for a town lot in York.

Jacob Snyther, late corporal in Butler's Rangers. Praying for military lands. Petitioner recommended for 400 acres as military lands, if not granted before.

Isaac Vollock and Jonas Laraway. A disputed claim. Referred to the Surveyor General.

Adjourned.

21st March, 1797.

Council Chamber, at Newark.

Present: His Honour Peter Russell, Esquire, Administering the Government, Hon. John Elmsley, Chief Justice, and Hon. David William Smith.

Read the following petitions:

Marmaduke Crozier. Praying for lands as an ensign. The petitioner not being upon half pay his claim to the portion of an officer cannot be admitted, but, in consequence of his having served in that capacity and being wounded, ordered that he receive 1000 acres in addition to the 200 granted him.

Isaac Swayze. Stating that he has purchased from the Hon. Robert Hamilton, as the attorney of Mrs. Deborah Guthrie, all the estate, right, and title of the said Deborah to the following lots of land in the township of Newark, viz., 20, 21, 26 and 27 in the first and second concessions, that he is desirous to surrender the same to Government in order that No. 21 may be re-granted to John McFarland, No. 26 to Andrew Heron, and the remaining two to himself, and praying that the surrender may be accepted and the grants issued as above specified. The powers being produced and approved, the deed to Deborah Guthrie was cancelled, and ordered that deeds issue to Isaac Swayze for lots 26 and 27, to John McFarland for lot 21, and to Andrew Heron for lot 26 in the township of Newark, they paying the fees.

Caleb and Richard Swayze. Praying for lands. Ordered 500 acres each.

Joseph Budd. Praying for lands as a settler, and for lands in right of his wife as the daughter of a loyalist. Ordered 200 acres to the petitioner's wife, the daughter of a loyalist, and 400 acres to the petitioner as having married the daughter of a magistrate.

Cornelius Winney, late non-commissioned officer in Butler's Rangers. Praying for lands. Ordered 600 acres to be appropriated to the petitioner and confirmed by deed when he becomes a resident within this Province.

Elizabeth Anguish, widow of Jacob Anguish, late of Butler's Rangers. Praying for three hundred acres family lands and 300 acres in right of her late husband. On consideration of this case, the Committee of Council submit to His Honour the propriety of giving all the family lands to the widow and all the military lands to the children as joint tenants. If the widow be dead, the family lands to be given in the same manner and vice versa. Ordered that the claims for family lands for deceased loyalists and others be granted according to the above regulation, and this rule to be invariably followed in future. The claims now petitioned for to be granted in this way if not granted before.

Hannah Frey. Praying for family lands and lands as a U.E. Loyalist. Ordered 100 acres as family lands and 200 acres in her own right as the daughter of a loyalist.

Nicholas Smith, late drummer, Butler's Rangers. Has received 200 acres of land, and praying to have the remainder of his military lands granted to him, and for lands in addition, having a large family. Ordered 100 acres to complete his military lands and 100 acres in addition in consequence of his large familv and good character.

John Rees. Praying for lands as a settler. Ordered 200 acres.

Philip Gregory. Praying for family lands. Ordered 250 acres to complete his family lands, he having received 400 acres before.

Andrew Frank. Praying for family lands and to be confirmed in his possessions in the township of Pelham. Ordered to be confirmed in lots 10 and 11 in the 3rd concession, and lots 10 and 11 in the 4th concession of Pelham if not under other claims, and 50 acres to complete his family lands.

Jacob Rees. Praying to be confirmed in his possessions in Pelham, and for a further grant of land. Ordered to be confirmed in lots 14 and 15, 3rd concession of Pelham if not under prior claims, and 350 acres as family lands if not granted before.

Richard Philips. Praying for six hundred acres of land. Ordered 200 acres for the present.

Asa Dayton. Praying for a town lot in Newark. Ordered a town lot in Newark.

Joseph Dennis. Praying for family lands and to be confirmed in his possessions in Humberstone. Ordered to be confirmed in lot 14, 1st concession of Humberstone if not under prior claim. The required certificate wanting for family lands.

John Everson, Junior. Praying for lands as a settler. Ordered 200 acres.

Bernard Frey. Praying for a town lot in Newark. Ordered a town lot in the town of Newark.

George Garner. Praying for lands in right of his wife, the daughter of a loyalist. Ordered 200 acres to the wife of petitioner as the daughter of a loyalist, if not granted before.

John Knox. Praying for a town lot in Newark.

Sufrenies Mabee. Praying for lands as a settler. Ordered 200 acres if none granted before.

Barney McIntee. Praying for lands. Ordered 200 acres including those already received. J.S.

Benegar Mallory. Praying to be confirmed in his possessions in Dayton's township. Ordered, in consequence of a promise from His Excellency Governor Simcoe, that lot 2 in the 5th concession of Burford be granted to the petitioner, and the reserve removed to some other lot.

Jeremiah Scram. Praying to be confirmed in lots 9, 10, 11, 12, 13 and 14 in the first concession of township 10, and for a town lot in Newark. Ordered if the lots are open. A town lot refused.

Hannah Bowman. Praying for lands as the daughter of a loyalist. Ordered 200 acres as the daughter of a loyalist, if not granted before.

Edward Harp. Praying for family lands and lands in right of his wife as the daughter of a loyalist. Ordered 200 acres to the wife of the petitioner, the daughter of a loyalist, and 200 acres to petitioner as family lands if not granted before.

Patrick Heron. Praying for lands as a settler and in right of his wife as the daughter of a loyalist. A certificate wanted for his wife. Ordered 200 acres for himself if none granted before.

Robert Shearer. Praying for lands. Ordered 200 acres, to be located in the Long Point Settlement.

Jacob Shark. Praying for lands as a settler. Ordered 200 acres.

John Stevens. Praying for lands for his wife and daughter. Ordered 200 acres to Mary Stevens, the daughter of petitioner, if none has been granted to her before.

Robert Thomas. Praying for lands as the son of a U.E. Loyalist. Ordered 200 acres.

Elizabeth Vanderlip. Praying for lands as the daughter of a loyalist. Ordered 200 acres as the daughter of a loyalist if not granted before.

Rachael Williams. Praying for family lands. Ordered 200 acres family lands if not granted before.

James Burley, late Queen's Rangers. Praying for lands. Ordered 300 acres in the township of Toby Cock if not granted before.

John Udle. Praying for a town lot in Newark. Rejected.

Stephen Burch. Praying for lands in addition to 200 acres which he has received. Petitioner has had his portion.

Andrew Van Heyning. Praying for lands as a settler. Rejected.

Thos. Otway Page. Praying for a town lot and such a portion of land as may be deemed meet. Petitioner not being able to adduce proof of his loyalty, the prayer of this petition is not granted.

Major Shank appeared before the Board and stated that His Excellency Governor Simcoe promised the officers of the Queen's Rangers to whom the 100 lots in the front concession of York had been appropriated should be granted to them unconditionally and exclusive of the portion of lands they were entitled to agreeable to their respective ranks. Ordered that these lots be granted to those officers according to His Excellency's promise.

Adjourned.

24th March, 1797.

Council Chamber, at Newark.

Present: His Honour Peter Russell, Esquire, Administering the Government; Hon. John Elmsley, Chief Justice, and Hon. David William Smith.

Read the following petitions:

William Hare. Praying that the lands occupied by his late mother may be assigned to his sisters. Ordered that lots 17 in the 1st and 2nd concessions, and 18 in the 2nd concession in Louth, with their broken fronts, be granted to the sisters of the petitioner, Mary and Elizabeth, the petitioner being desirous of giving up to them his right to the lands his late mother may have been entitled to.

James Newkirk. Praying for lands in right of his father. No grounds for this claim.

Samuel Whiting. Praying for lands as a settler. When the petitioner has been in the Province twelve months his petition will be attended to.

William Read. Praying for lands in right of his wife as the daughter of a loyalist. Ordered 200 acres to the wife of the petitioner, the daughter of a loyalist, if not granted before.

Mary O'Neal. Praying for lands. Ordered 200 acres as the daughter of a loyalist if not granted before.

Christopher Pierce. Praying for lands as a settler. Ordered 200 acres, if none granted before, upon His Honour's letter.

Giles Hall. Praying for lands as a settler. Ordered 200 acres if none granted before.

Adrian Bradt. Praying for family lands. Ordered 150 acres for family lands if not granted before.

Jacob Miller. Praying for family lands. Ordered 100 acres family lands if not ordered before.

Elizabeth Newkirk. Praying for lands as the daughter of a loyalist. Ordered 200 acres as the daughter of a loyalist.

Philip Smith. Praying for family lands. Ordered 200 acres family lands if not granted before.

Jenny McCarley. Praying for lands as the daughter of a loyalist. Ordered 200 acres as the daughter of a loyalist if not granted before.

John McDougall. Praying for lands in addition. Ordered 200 acres to Sarah, the wife of the petitioner, the daughter of a loyalist, if not granted before, and 200 acres to himself in addition as conductor of waggons.

Michael Hess. Praying for family lands. Ordered 300 acres to complete his family lands if not ordered before.

Thomas Mercer. Praying to be confirmed in the lands he has received and for an addition thereto. Ordered that the 200 acres directed by the Administrator during the recess to be assigned to the petitioner be confirmed to him and, in consideration of his respectable recommendations, ordered 200 acres in addition, also a town lot at York. One lot permitted to be located in the township of York.

Samuel Mercer. Praying to be confirmed in the lands he has received. Ordered to be confirmed in the 200 acres directed by the Administrator during the recess.

James Mathews. Praying to be confirmed in 200 acres which he has received in right of his wife. Confirmed.

Henry Witner, late Butler's Rangers. Praying for lands. The petitioner, having produced his discharge, to receive 300 acres of land if not granted before.

Reverend Edmund Burke. Praying for a town lot in Niagara and at York. Town lots in York and Niagara to be ordered to the Reverend Mr. Burke on the usual conditions.

Christina Thomas. Praying for lands as the daughter of a loyalist. Ordered 200 acres as the daughter of a loyalist.

Dorothy Ball. Praying for lands. No lands are given to single women unless they are the daughters of loyalists.

Adjourned.

28th March, 1797.

Council Chamber, at Newark.

Present: The Hon. John Elmsley, Chief Justice, and Hon. David William Smith.

Read the following petitions:

John Donaldson. Praying for family lands and lands in right of his wife as the daughter of a loyalist. Recommended for 300 acres as family lands and 200 acres to his wife as the daughter of a loyalist.

Peter Montgomery. Praying for lands as a settler. Recommended for 200 acres.

Frederick Buck. Praying for lands as a settler. Recommended for 200 acres.

Jane Clark. Praying for family lands. Recommended for 300 acres as family lands.

Sarah Clark. Praying for lands as the daughter of a loyalist. Deferred till petitioner is of age or married. (7 March, 1799, a certificate of marriage being produced, a warrant of survey ordered.) (Signed) P.R.

Abigail Bessey. Praying for lands as the daughter of a loyalist. Recommended for 200 acres as the daughter of a loyalist.

Eleanor Ostrander. Praying for lands as the daughter of a loyalist. Recommended for 200 acres as the daughter of a U.E. Loyalist.

John Beikie. Praying for lands in addition. Recommended for 1200 acres including those already received as a magistrate.

Lieut. Solomon Secord. Praying for family lands. Recommended for 150 acres as family lands.

Dorothy Hainer. Praying for family lands. Recommended for 150 acres as family lands.

Martin Buchner. Praying for lands as the son of a loyalist. Recommended for 200 acres as the son of a loyalist.

Lois Buchner. Praying for lands as the son of a loyalist. Deferred till petitioner is of age.

Isaac Gilbert. Praying for lands as a military claimant. Recommended for 300 acres as a sailor.

David Clow. Praying for lands as the son of a loyalist. Recommended for 200 acres as the son of a loyalist.

Duncan Clow. Praying for lands as the son of a loyalist. The mother to send an affidavit that the petitioner is of age.

Elizabeth Nicholson. Praying for lands as the daughter of a loyalist. Deferred till petitioner is of age or married.

Mary Weaver. Praying for lands as the daughter of a loyalist. Deferred till petitioner is of age or married.

Robert McKinley. Praying for a gore of land adjoining his lot. Referred to the Acting Surveyor General and recommended if practicable or proper.

Peter Hopkins. Praying for lands for himself and family. Recommended for 200 acres as a settler but, it appearing from his own account that he left the Province within three months after first entering it and did not return till after 1789, not recommended for family lands.

John Collard. Praying for family lands and lands in right of his wife as the daughter of a loyalist. Recommended for 250 acres as family lands. His wife recommended for 200 acres as the daughter of a loyalist (U.E.).

James Hurst. Praying for lands in addition to 200 acres which he has received. Recommended for 400 acres in addition to those already received.

Peter Lampman. Praying for family lands. Recommended for 250 acres as family lands.

Thomas Waters. Praying for lands. Recommended for 200 acres as a settler.

Henry Rogers. Praying for lands. Recommended for 200 acres as a settler.

John Hansinger, Senior, late Royal Yorkers. Praying for his military and family lands. Recommended for 300 acres including former grants as military lands and 200 acres as family lands.

John Hansinger, Junior, late Royal Yorkers. Praying for his military and family lands. Recommended for 300 acres including former grants as military lands, and 150 acres as family lands.

John Chrysler. Praying for a town lot in Newark. Not recommended.

Michael Barnes. Praying for lands as a settler. Recommended for 200 acres as a settler.

Mrs. Elizabeth Crooks. Praying for lands. Recommended for 400 acres as the wife of a magistrate.

William Tunguy. Praying to be confirmed in 200 acres of land which he possesses in Townsend, and for 100 acres in addition as a military claimant. Recommended for confirmation and 100 acres in addition as a sailor.

Mary Shafer. Praying for lands as the daughter of a loyalist, and for family lands. Recommended for 200 acres as the daughter of a loyalist. Her husband recommended for 100 acres as family lands.

Joseph Wilson. Praying for lots 21 and 22 in the 2nd concession of the 6th township and for family lands. Recommended for 200 acres as a settler and 250 acres as family lands. (Revised later.)

Thomas Martin. Praying for lands in right of his wife as the daughter of a loyalist. Petitioner's wife recommended for 200 acres as the daughter of a loyalist (U.E.) when she shall produce a certificate of that fact.

William Wires. Praying for lands as a settler. Recommended for 200 acres as a settler.

Joseph Adair. Praying for lands as a settler. Recommended for 200 acres as a settler.

Thomas McMicking. Praying for lands in addition. Referred to His Honour.

William and Christian Price. Praying for 50 acres each as family lands. Not recommended.

Elizabeth Price. Praying for family lands. Recommended for family lands to be made up to her 300 acres.

Barney McIntee. Praying for lands in right of his wife. Not recommended.

Benjamin Willis. Praying for lands as a settler. Recommended for 200 acres as a settler.

John Marty. Praying for a town lot in Newark. Not recommended.

Philip Bender. Praying to be confirmed in lot 144 in Stamford. Referred to the Acting Surveyor General.

Daniel Alward. Praying for lands in addition to what he has received. Recommended for 200 acres including former grants.

Charles Anderson. Praying for lands in addition to 200 acres which he has received. Not recommended.

George Bowman. Praying for family lands. Recommended for 200 acres in addition as family lands.

Charles Burch. Praying for family lands. Recommended for 450 acres as family lands in addition to his military lands.

Mrs. Elizabeth Thompson, wife of Archibald Thompson. Praying for lands. Recommended for 200 acres.

Joseph Robinson, late Butler's Rangers. Praying for the residue of his military lands (having received 200 acres), and family lands. Recommended for 300 acres military lands including 200 acres already received, and 250 acres as family lands.

Michael Kelly. Praying for lands. Recommended for 200 acres.

Michael Beach. Praying to be confirmed in a location of 200 acres which he has received from the Administrator. Recommended for confirmation.

Nathan Bunnel Barnum. Praying for the broken front of lot 7 in the township of Charlotteville. Recommended if the Acting Surveyor General sees no objection.

James Burgess. Praying for lands in addition to 200 acres which he has received. Not recommended.

Lieut. Joseph Bouchette. Praying for lands in the township of Clarke. Referred to His Honour.

Niel Brown, late corporal, 74th Regt. Has received 200 acres of land, and praying for 200 acres to complete his military lands. Recommended for 400 acres military lands including those already received.

Robert Concklin, late of Butler's Rangers. Praying for his military lands and a town lot in Newark. Recommended for 300 acres military lands, but no town lot.

John Castleman. Praying for family lands and a town lot in Newark. Recommended for family lands 100 acres, but no town lot.

William Cole. Praying for lands in right of his wife as the daughter of a loyalist. Petitioner's wife recommended for 200 acres as U.E. Loyalist.

George and John Cockle. Praying for lands in addition. Not recommended.

Frederick Schram, late corporal, Butler's Rangers. Has received 200 acres of land, and praying to have his military lands completed. Recommended for 400 acres military lands, including those already received.

James Clendennan. Praying for lot 17 in the town of Newark. Recommended if the lot be not granted to any other person.

John Cutler. Praying to be confirmed in 200 acres of land which he possesses in the township of Bertie, and for an addition thereto. Recommended to be confirmed in 200 acres, but not recommended for any further grant until further cause shown.

Asa Cohoe. Stating that he is son and heir of the late Andrew Cohoe, that his said late father only located 300 acres out of 500 which he was to receive, and praying that the remaining 200 may be granted to him. Recommended that the remaining 200 acres be granted to the children of the deceased as joint tenants.

Ensign Ebenezer Anderson, late Royal Yorkers. Has received 500 acres of land, and praying to have his military lands completed. Recommended for 2000 acres including those already received.

Samuel Cassady. Praying for lands in right of his wife as the daughter of a U.E. Loyalist. The certificate must state the facts it verifies.

Joel White Morris. Stating that he possesses the front parts of the lots 25 and 26 on Lake Erie in the township of Bertie and praying for the rear parts of the said lots. Recommended in consequence of his having resigned five chains in the width of his lots to accommodate the settlers in that part of Bertie near Point Abino to the extent of 100 acres.

Elizabeth Coon, wife of George Ransier. Praying for 200 acres of land, and to be put on the U.E. Loyalist list. Not recommended.

Walter Davies. Praying for 1000 acres of land in the county of Grenville or Leeds. (Revised later.) Not recommended.

John Disher, son of John Disher, of Pelham. Praying for lands in the Long Point Settlement. Petitioner must produce a certificate that he is the son of Mr. Disher.

Richard Dowdle. Praying to be confirmed in 400 acres of land for himself and 200 acres each to his three sons of age, Thomas, Phinnis and William, appropriated to them by His Honour the Administrator. Recommended for confirmation.

William Disher, Junior. Praying for lands for himself and family. Recommended for 300 acres including family lands.

Bartholemy Dunn. Praying for lands in right of his wife, the widow of the late Samuel Haslip. Proofs wanting.

Robert, William and John Hamilton, late of Butler's Rangers. Praying for their military lands. Petitioners recommended for their military lands if not granted before.

William Hogan. Praying for lands in addition to 500 acres which he has received. Recommended for 1200 acres including former grants.

John McLeland, late 84th Regt. Praying for his military lands. Recommended for 300 acres as military lands.

John Filman. Praying for lots 3 and 4 in the 7th concession of the township of Barton, which he has long occupied by authority of the Land Board. Recommended if the Acting Surveyor General sees no objection.

Peter Green, late of Delancey's Corps. Praying for his military lands. Recommended for 300 acres as a soldier.

George Grilinger, late 34th Regt. Praying for lands in addition to 200 acres which he has received. Recommended for 300 acres military lands including former grants.

George House, Junior. Praying for lands as the son of an old Ranger. Recommended for 200 acres.

John Hill, Senior. Praying for lands for himself and family. Recommended for 800 acres including family lands and prior grants.

Jacob Henckel. Praying to be confirmed in lot 20, 3rd township south River Thames which has been located to him by the Land Board. Recommended to issue a warrant to Jacob Henckel in course for his receiving a patent, sufficient notice to be given that if the Moravians have any prior claim they may have an opportunity of putting in their caveat, although it appears to the Committee that the petitioner has been regularly located by the Land Board.

William Helands. Praying for lands. Petitioner cannot have lands until he is discharged from the R.C. Volunteers.

James Houghdelane. Praying for lands in right of his son, who was hung by the Americans during the late war. Not recommended.

George Hansell. Praying for lands for himself and family. Recommended for 300 acres including family lands and former grants.

William Hawn. Praying to be confirmed in 200 acres of land he possesses in the township of Bertie. Recommended for confirmation if the Acting Surveyor General sees no objection.

John Kelly. Praying for family lands. Recommended for 200 acres family lands if not already received.

Elias Long. Praying for family lands and lands in right of his wife as the daughter of a loyalist. Recommended for 200 acres family lands and 200 acres to his wife.

James McCollom. Praying for lands for his wife and family. Petitioner must produce a certificate of what number of children he brought into the Province.

Simon Mabee. Praying for lands in addition to 200 acres which he has received. Not recommended.

John Murray. Praying for lands, having served in the Marine Department three years. Recommended for 300 acres if not already received.

Henry Meyers. Praying for lands as a military claimant. Petitioner must produce a discharge or a certificate of his having been regularly discharged.

Jacob Merkle, Junior, Henry Merkle, Junior, Sybil Wright, Samuel Wright and Ulda Rose. Praying for lands as the descendants of U.E. Loyalists. Recommended for 200 acres each.

Thomas McKee, Esquire. Praying for lands. Recommended for 1200 acres including former grants.

Lieut. Meredith Melvin. Praying for lands. Recommended for 800 acres. (Read again 31st March, 1797.)

Morilla Mathews. Praying for lands as the daughter of a loyalist. Recommended for 200 acres as a U.E. Loyalist.

Moses Mount. Praying for lands in right of his wife as the daughter of a loyalist. Recommended for 200 acres as a U.E. Loyalist.

Thomas Miller, son of Serjeant Miller, late Rangers. Praying for 300 acres of land to complete his military claim, having received 200 acres. Recommended that the remainder of the deceased's military lands be granted to his children as joint tenants.

Andrew Hansel. Stating that he has obtained an Order of Council for 200 acres of land, of which 150 only have been located, and praying for an addition thereto, and for family lands. Recommended to make up his own lands to the 200 acres agreeably to a former order, and 200 acres for family lands, taking care that Peter Miller who is settled on the lots the petitioner is entered for be secured in his improvements to the extent of 50 acres.

John Hainer. Stating that he has received 250 acres family lands, and praying for an addition thereto. Recommended for 100 acres as family lands, making 350 in the whole.

John McIntosh. Praying for lands. Petitioner can have no lands until discharged.

John Chrysler. Praying for lands in right of his wife, Martha Hitchcock, the daughter of a U.E. Loyalist. Petitioner's wife recommended for 200 acres as a loyalist (U.E.).

Adjourned.

31st March, 1797.

Council Chamber, at Newark.

Present: His Honour Peter Russell, Esquire, Administering the Government; Hon. John Elmsley, Chief Justice, and Hon. David William Smith.

Read the following Land Board certificates:

Philip Stedman, Senior. Lots 14 and 15 in 3rd concession of Willoughby computed at 200 acres. Cancelled by order of the Council 31st March, 1797; an Order of Council having issued for the same quantity in the front concession of 19 and 20, 21, 22 and 23.

Philip Stedman, Senior. Lots 19 and 20, front concession, computed at 200 acres. Cancelled by order of the Council, 31st March, 1797; an Order of Council having issued for the same numbers in the front concession.

Philip Stedman, Senior. Lot 18 in the 2nd concession computed at 100 acres. Cancelled by order of the Council 31st March, 1797; an Order of Council having issued for the same number in the first concession.

Philip Stedman, Senior. Lots 19 and 20 in 2nd concession supposed 200 acres. Cancelled by order of the Council 31st March, 1797; an Order having issued for the same numbers in the 1st concession. Upon reference to an application from the Acting Surveyor General respecting certain assignments in Willoughby, a letter from Major Littlehales of 16th July, 1796, and another from the Royal Engineer of the 11th August, 1795, both to the Acting Surveyor General, the one respecting the fronts of two lots to be located to Mr. Street on certain conditions, the other relating to the military reserve on the south side of the mouth of the Chippawa, ordered that the lands to be described for Mr. Stedman, Senior, be lots 18, 19 and 20 in the 1st concession with the broken fronts of 19 and 20 as found to be upon actual survey, and so much of lots 21 and 22 with the broken fronts of 21, 22 and 23 as lies to the eastward of a transverse line run across those lots (for Mr. Stedman, Junior's, 200 acres adjoining to about 200 acres as plotted for Mr. Cummings) and to the eastward thereof being transferred by the Land Board to the latter person, and for Mr. Cummings the above lot of about 200 acres exclusive of the reserve at the point and chiefly above Chippawa bridge.

Read the following affidavit:

Personally appeared before me, D. W. Smith, Esq., one of His Majesty's justices of the peace, Beniah Williams and Anthony Upper who, being duly sworn on the holy evangelists of Almighty God, deposed that they received from Paul Averill two recommendations annexed and, having informed the said Paul Averill that they had received lands before in the Province, he said it was of no consequence and took one dollar from them and each of them, informing them that his recommendations were good, notwithstanding they had other grants in the Province. It appearing to the Board that Paul Averill has abused the trust reposed in him, ordered that no recommendations of his shall be received in future, nor the recommendations of any other person in the name of Andrew Pierce.

Read the following petitions:

John Thompson. Praying for the broken front of lot 41 in the township of Stamford. Ordered that the broken front of lot 41 be included in the grant to John Thompson.

Hagar Parks. Praying for the broken front of lot 41 in the township of Stamford. It appearing to the Board that the broken front opposite to lot 41 properly belongs to that lot. Consequently the prayer of this petition cannot be complied with.

Robert Kerr, Esq. Praying for lands for his children. Ordered, in consideration of the petitioner being one of the oldest magistrates in this district and having been a member of the late Land Board, that 400 acres be appropriated to each of his five children, viz., Nancy Kerr, W. Johnson Kerr, Walter Kerr, Mary Margaret Kerr and Robert Joseph Kerr.

Lieut. Joseph Bouchette, Provincial Marine. Praying for lands. Ordered 1200 acres including former grants.

Lieut. Anthony Niverville, Provincial Marine. Praying for lands. Ordered 1200 acres including former grants.

Lieut. Meredith Melvin, Provincial Marine. Praying for lands. Ordered 1200 acres including former grants.

Lieut. Hugh Earl, Provincial Marine. Praying for lands. Ordered 1200 acres including former grants.

Thomas McMicking. Praying for lands in addition. In consideration of the respectable recommendations adduced by the petitioner and his steady loyalty and services to loyalists while living in the revolted colonies, ordered 400 acres in addition.

The Hon. John Elmsley, in behalf of Mr. Justice Powell, etc. Ordered that the Surveyor General appropriate, in the township of York, farm lots of 200 acres for the two Judges of the King's Bench, the Attorney General, the Solicitor General, and Clerk of the Crown if not granted before, and those not to be included in the quantities of land ordered to each of those respective officers.

Alexander McQueen. Praying for family lands. Ordered 100 acres to complete his family lands.

Rebecca Plummer. Praying for lands. Ordered 200 acres.

Mary Addison. Praying for lands. Ordered 400 acres.

James Newkirk. Praying for lands in right of his deceased father. Ordered 200 acres in right of his father.

William Dickson. Praying for 400 acres of land in addition. The petitioner has received to the utmost extent which the Board is empowered by the King's Instructions to give to individuals.

Samuel Street, Esq. Praying for an additional grant of land to his nephews, Samuel Street, Junior, and Allan Cameron Wilmot. Ordered that the lands granted to Samuel Street, Junior, be made up 600 acres to put him on a footing with others of his description. Allan Cameron Wilmot is not yet considered to be in that line.

Samuel Street, Esq. Praying to be confirmed in a town lot at Newark which he has possessed for a length of time. The prayer of the petition granted.

Oliver Mabee. Praying for lands in addition. The petitioner appears to have got the quantity of land judged expedient to grant him.

Reverend Robert Addison. Praying for lands for his children. The Board with pain refuses the prayer of this petition, being contrary to the general rule they have laid down for their conduct in the Land Granting Department.

John Winger. Praying for lands for himself, wife and family. Ordered 200 acres to petitioner in his own right and 300 acres as family lands if not granted before, or, lands being before granted, to be made up to that quantity.

Jacob Ceyder. Praying for lands for himself, wife and family. Ordered 400 acres for self, and family lands if not granted before.

Abraham Sloot. Praying for lands in addition. The petitioner has got the lands he is entitled to.

Isaac Vollock. Praying for 200 acres of land in right of his wife and for 50 acres to complete his family lands. Ordered 50 acres to complete his family lands if it shall appear that he received that quantity short of what he was entitled to.

Anne Thompson. Praying for lands in addition. In consequence of the very singular merit of the petitioner's grandfather, ordered 200 acres in addition.

Priscilla Reid. Praying for lands as the daughter of a loyalist. Ordered 200 acres as the daughter of a loyalist.

James Baggs. Praying for lands. Ordered 200 acres.

Alexander McTavish, late 74th Regt. Has received 200 acres of land, and praying for the remainder of his military lands. Ordered 100 acres to complete his military lands.

Hannah Sypes. Praying for lands for herself and family. Ordered 200 acres as a settler, and ordered 450 acres for family lands if not granted before.

Jacob Bessey. Praying for lands in addition. The petitioner has got his lands.

Adjourned.

4th April, 1797.

Council Chamber, at Newark.

Present: His Honour Peter Russell, Esq., Administering the Government; Hon. John Elmsley, Chief Justice, and Hon. David William Smith.

Read the following petitions:

Ebenezer Jones. Stating his claim to land in Burlington Bay. Referred to the Surveyor General for report.

Augustus Jones. Stating his claim to land in Burlington Bay. Referred to the Surveyor General for report.

Charles Wilson. Praying for lands for himself and family, consisting of a wife and five children. Ordered 200 acres for petitioner and, certificate being produced, family lands also.

Jabez and James Johnson. Stating that they have received 200 acres of land each and praying for an addition thereto. The petitioners do not come under Lord Dorchester's bounty which was intended only to encourage military settlers to be industrious on their 100 acre lots. Ordered 100 acres family lands to Jabez Johnson, he having produced a certificate for a wife and one child.

Mary Moody. Stating various services performed during the American War, and praying for lands for her children and for herself. In consequence of the services rendered by the petitioner, and the recommendations of His Excellency Lieut. Governor Simcoe, ordered 200 acres to the petitioner, 200 acres to Sarah Mattice, and an appropriation of 200 acres each to William, Walter, James, and Catherine Moody, children of the petitioner, to be confirmed to them by deed when married or of age; also an appropriation of 200 acres each to her children, Jane Hanshaw, Richard Hanshaw and Ruth Hanshaw, to be confirmed by deed when they become residents in this Province.

Wells Whitmore. Praying for lands as a settler. Ordered 200 acres if none granted before.

Enome Hickson. Praying for family lands. Ordered 400 acres family lands if not granted before.

Joseph Page. Praying to have his family lands completed. Ordered 50 acres to complete his family lands if not done before.

Elizabeth Banta. Praying for lands. The petitioner does not state any ground on which she can claim more land than what has been already granted to her husband.

Benjamin Doyle, late private, Butler's Rangers. Has a wife and six children. His wife is the daughter of Andrew Summers, who served in Sir John Johnson's Corps, and having never received any lands, prays for 400 acres family lands and 300 acres in his own right. Ordered 250 acres for family lands if not granted before. The claim of the petitioner's wife referred to the U.E. list. Ordered that the petitioner's military lands may be completed if not already done.

Ensign James McDonell. Praying to have his military lands completed. The consideration of this petition deferred until Ensign McDonell appears in person.

Deborah Meddauch. Praying for lands as a U.E. Loyalist. Ordered 200 acres as the daughter of Elias Smith, a U.E. Loyalist, if not granted before.

Peter Meddauch. Praying for family lands. Ordered 150 acres family lands if not granted before.

Mathew Camp. Stating that he joined the Royal Standard previous to the conclusion of the war, and praying for land. Ordered 200 acres if not granted before.

Nathaniel White. Praying to be allowed to locate a magistrate's recommendation for 200 acres of land in the Long Point Settlement. Ordered 200 acres if not granted before.

Jonas Laraway. Praying for family lands. Ordered 250 acres as family lands if not granted before.

Edmund Warren. Praying for land. The petitioner is not yet of age but in consideration of his father's respectability and situation, 400 acres may be appropriated to him to be confirmed by deed when he comes of age.

Margaret McClellan. Praying for land. The petitioner is not yet of age.

Samuel Boyd. Praying for land as a settler. Ordered 200 acres.

George Hainer. Praying for lands as a loyalist. Ordered 200 acres if of age and not granted before.

John Weaver. Praying for lands for himself as a settler, and in right of his wife as the daughter of a U.E. Loyalist. Ordered 200 acres for petitioner, and 200 acres to his wife, the daughter of a loyalist.

Catherine Clement. Praying for land as the widow of Lieut. Clement of the Indian Department. The petitioner's husband having received the proportion he was entitled to as a reduced officer, and all her children theirs according to their respective ranks, the Board cannot grant specifically to her without deviating from the rules they have laid down for their conduct in the Land Granting Department.

Anne Dugan. Praying for lands as the daughter of a U.E. Loyalist. Ordered 200 acres as the daughter of a loyalist if not granted before.

James Edsall. Praying for family lands. Ordered 150 acres for family lands.

Frederick Smith, Senior. Praying for a town lot in Newark. Ordered a town lot in Newark.

Jacob Beyer. Praying for lands for himself and family. Ordered 200 acres for himself and 150 acres family lands if none granted before.

Alexander Summers, late corporal, 69th Regt. Has received 200 acres of land in the township of Crowland but in a spot unfit for cultivation, praying to be allowed to exchange the said lot and for 200 acres in addition. Ordered 200 acres in addition to put him on a footing with military men of his rank.

William Hare, late volunteer, Butler's Rangers. Stating that he was promised a subaltern's proportion of lands and praying for an addition to those he has received as a volunteer. The petitioner to produce evidence in support of the facts stated in his petition.

Joseph Dennis. Stating that he lives on lot 15 in the front of the township of Humberstone but has never been confirmed in the same, and praying for 200 acres of land for himself and 200 in right of his wife, the daughter of a U.E. Loyalist. Ordered 200 acres including his improvement, and 200 acres to petitioner's wife, the daughter of a loyalist.

George Johnson. Praying for lands as a settler. Ordered 200 acres if not granted before, having a mother resident in the Province.

William Vanderlip. Praying for family lands. Ordered 100 acres family lands for a wife and child.

Joshua Fairbanks. Praying for lands as a settler. Ordered 200 acres.

Isaac Worman. Praying for lands as a discharged Ranger. The petitioner to appear before the Board.

Isaac Sweatman. Praying for lands as a discharged Ranger. The petitioner to appear before the Board.

William Johnston. Praying for lands as a settler. Ordered 200 acres.

Hannah Brown. Praying for land in right of her father who served during the American War in Jessup's Rangers. Ordered that the lands the petitioner's father would have been entitled to as a reduced soldier, if not granted before, shall be granted to the four daughters of the deceased.

Isaac Vollock and Jonas Laraway. A contested claim. Having read the Surveyor General's report, and the parties Vollock and Laraway, and it appearing that the petitioners have been for 12 years in possession, Vollock of lots 1 and 3 in the 3rd concession of Louth, and 22 and 23 in the 4th concession of Grantham; and Laraway of lot 2 in the 3rd concession of Louth, and improved thereon, ordered that the petitioners be confirmed, Vollock in lots 1 and 3 in the 3rd concession of Louth, and 22 and 23 in the 4th concession of Grantham, and Laraway in No. 2 in the 3rd concession of Louth, including their respective improvements, and the said lots to be counted as part of the lands granted to them.

Peter Ten Broeck. Praying for family lands and for certain lots in Louth and Grantham. Ordered that 350 acres be granted to the petitioner for family lands. The lots prayed for by the petitioner in exchange for others have been already occupied and improved upon by other settlers, and cannot be granted to the petitioner.

Henry Clute. Praying for a town lot in Newark. Ordered a town lot in Newark if none granted before.

John Miller. Praying for land. Ordered 200 acres.

George Keefer. Praying for land in right of his wife as the daughter of a loyalist. Ordered 200 acres to the wife of the petitioner, the daughter of a loyalist.

Adjourned.

7th April, 1797.

Council Chamber, at Newark.

Present: The Hon. John Elmsley, Chief Justice, and the Hon. David William Smith.

Read the following petitions:

Lieut. A. H. Brooking, of the Queen's Rangers. Stating that, at the conclusion of the late war, he was reduced on half pay as a subaltern, that he has received 1000 acres of land and praying for an addition thereto. Recommended for 2000 acres including former grants.

Samuel Heron. Praying for an addition to 200 acres of land which he has received, and for a front town lot at York. Recommended for 200 acres in addition, but no town lot in front of York.

Hugh Haggerty. Praying for family lands. Recommended for 150 acres family lands.

Jacob Thomas. Praying for family lands. Recommended for 150 acres as family lands.

Archibald Scott. Praying for lands as a military claimant. Recommended for 300 acres, having served.

Jenny Cairn. Praying for lands as a loyalist. Recommended for 200 acres as a U.E. Loyalist.

Adam Burwell. Praying for family lands, lands in right of his wife as a U.E. Loyalist and for military lands. Recommended for 350 acres as family lands, his military lands to be made up 300 acres, and his wife recommended for 200 acres as a U.E. Loyalist.

Hugh Alexander. Praying for lands as a loyalist. Recommended for 200 acres as a U.E. Loyalist.

Samuel G. Bishop. Praying for lands as a settler. The Committee of Council request that the petitioner may never have any grant of lands in this Province.

Jacob Bemer. Praying for lands as a settler. Recommended for 200 acres as a settler. (N.B. This extinguishes a recommendation by Strong Sturges, one of Pierce's associates.)

Elizabeth Coon. Praying for family lands. Recommended for 50 acres family lands.

Patrick Cruickshanks. Praying for military lands in addition. Recommended to make up his lands to 400 acres, having been a 1st gunner in the Royal Artillery.

William Cornwell. Praying to be confirmed in 200 acres which he has located at York and for 200 acres in addition. Recommended to be confirmed in the 200 acres already located, but no further grant.

Henry Dell. Praying for lands as a military claimant. Petitioner must produce his discharge, or some other sufficient proof that he was regularly discharged.

John Bemer. Praying to be confirmed in lots 1 and 2 which he possesses in the 14th concession of the township of Townsend. Recommended that he may be confirmed in lot 1 in the 14th concession of Townsend to cover his family lands. (N.B. This extinguishes a recommendation by Strong Sturges, one of Pierce's associates.)

Mary Durham. Praying for lands as a loyalist. Recommended for 200 acres as a U.E. Loyalist.

Johanna Anderson, niece of Colonel Gray. Praying for lands as a loyalist. The Committee beg leave to recommend the petitioner for 1200 acres.

Alexander Carpenter. Praying for lands as a settler. On production of a certificate of his good behaviour, recommended for 200 acres.

Jabez Collver. Praying to be confirmed in a location made to him by His Honour the Administrator. The location made by His Honour recommended for confirmation.

Jacob Tederick. Praying for lands in right of his wife as a loyalist. Recommended for 200 acres as a U.E. Loyalist.

Jacob Elliott. Praying for a grant of the west half of lot 33 and the west half of lot 35, formerly located to Samuel Elliot and William McKee, in the 2nd concession of Elizabethtown, on which petitioner is settled and made improvements. Referred to the Surveyor General to enquire of the Deputy Surveyor of the Eastern District.

Jacob Bardon. Praying for lands as a settler. Petitioner to wait a year from the 7th of February last.

Gloud Burnside. Praying for lands as a settler. To lie over until petitioner has been 12 months in the Province from November last.

Charles Boulanger. Stating that he served as an ensign during the American War, and praying for such a portion of land as may be deemed meet. Petitioner must produce the necessary vouchers of the facts he states.

Captain Peter Hare. Praying for land for his daughters, Mary and Catherine. Deferred till Mary and Catherine attain the age of 21 years, or are married.

Mary Hare, daughter of Capt. Peter Hare. Praying for lands. Refer to the order made on Capt. Peter Hare's petition of same date.

Joseph Howell. Praying for lands as a settler. Recommended for 200 acres.

Margaret Hainer. Praying for lands as a compensation for losses during the American War. Many similar applications have been refused.

Jacob Tederick. Praying for family lands. Recommended for 200 acres family lands.

John Kennedy. Praying for lands as a settler. Petitioner must produce certificates of his good conduct in the Province.

Mathew Kain. Praying for lands as a reduced serjeant. Recommended for 500 acres including former grants.

Henry Johnson. Praying to be confirmed in 200 acres of land he possesses in Grimsby, and for an addition thereto. Recommended for confirmation in the lot already located, but no further grant.

Isaac Lowell. Praying for lands as a settler and for lands in right of his wife as a loyalist. Petitioner's wife recommended for 200 acres as a U.E. Loyalist but Committee of Council see no ground of recommendation for petitioner.

Joseph Loewé, private in the R.C. Volunteers. Praying for lands. Deferred till petitioner is regularly discharged.

John Ledan, Queen's Rangers. Praying for lands. Petitioner will receive his lands when regularly discharged.

Solomon Quick. Praying to have his military lands completed. Recommended to make up his military lands to 300 acres.

John McGlashan. Praying for lands as a settler. Recommended for 200 acres as a settler.

Simon McNabb. Praying for lands in addition to 200 acres received. Recommended for 600 acres, including former grants, as a young merchant.

John Morden. Praying for a town lot at Newark. Not recommended.

William Merritt. Praying to be confirmed in a lot he possesses in Caistor and for the broken front of a lot lying between him and the 20 Mile Creek. Recommended to be appropriated for petitioner (saving all rights) until the 1st of June next.

James Lieth. Praying for lands. Recommended for 600 acres as a young merchant.

William McDonald. Praying for lands for himself and his wife as loyalists. Petitioner recommended for 200 acres as U.E. Loyalist but must produce proofs as to his wife.

Polly Page. Praying for lands as a loyalist. Recommended for 200 acres as a U.E. Loyalist.

William Oldfield. Praying for family lands and to be confirmed in 200 acres he possesses in Stamford. Recommended for confirmation in his present lots and for 100 acres family lands.

Patty Marvin Peters. Praying for lands. Recommended for 600 acres as the wife of a barrister.

Isaac Smith. Praying for lands in addition. The Committee cannot recommend for additional lands without any especial cause being shown.

W. B. Sheehan. Praying for lands for his children. Petitioner's children must wait until they come of age.

Ralph Segar. Praying for family lands and to be confirmed in 200 acres he possesses in Louth. Recommended for confirmation in his present lot and for 200 acres as family lands.

John Size. Praying for lands as a military claimant. Recommended to make up the petitioner's lands 300 acres as a discharged seaman.

Jonas Sypes. Praying for lands for himself as a settler and for his wife as a loyalist. Petitioner's wife's claim to wait for the U.E. list, his own not recommended.

Philip Servos. Praying for lands in addition. Additional lands are not granted without special claim.

Thomas Schofield. Praying to be confirmed in a license of occupation for a town lot at York. Recommended to confirm His Honour's license of occupation during the recess for a town lot in York.

Jacob Ten Broeck. Praying for a town lot in Newark. Not recommended until it appears petitioner means to settle in this town.

James Thompson. Praying for a town lot in Newark. Not recommended until petitioner shows himself qualified for what he asks for.

John Futeral, private, R.C. Volunteers. Praying for lands. Petitioner cannot have lands until discharged.

John Troyer. Praying for lands in addition. Additional lands are not granted without especial claim.

Christian Troyer. Praying for lands in addition. Additional lands are not granted without especial cause.

James Thompson. Praying for a town lot in Newark. Petitioner does not appear entitled to a town lot in Newark.

John Troyer. Praying for lands in addition. Additional lands are not granted without especial cause.

Ensign Elijah Vincent. Praying to be confirmed in a location of 2000 acres in the Long Point Settlement. Recommended for confirmation.

David Tutle. Praying for the rear part of lot 18 in front in the township of Walpole. Recommended.

Benjamin Woodhull. Praying to be confirmed in his location on the River Thames. Recommended to confirm His Honour's location of 200 acres.

Thomas Welch. Praying for an additional grant of 400 acres each to Moses and John Nevill, promised to them by Lieutenant Governor Simcoe. Deferred till His Excellency's return.

Thomas and Mary Welch. Praying that lot 24 in the first concession of Humberstone may be granted to Ephraim Cole Mitchell, as heir to the late Hannah Mitchell, mother of Mary Welch. The Council cannot interfere with legal rights.

John White, private, R.C. Volunteers. Praying for lands. Lands cannot be granted to soldiers while in the service.

John West. Praying for lands as a military claimant. Recommended to make up his military lands 300 acres.

Mary Wintermute. Praying for family lands. Recommended for 100 acres family lands. The sons who served must be considered as emancipated.

Samuel Winterbottom. Praying for lands as a military claimant. No person can receive lands in more than one capacity.

George Wintermute. Praying for family lands and additional lands as a settler, having received 150 acres. Recommended for 200 acres including former grants, but proofs for family lands are wanting.

Olander Mack. Praying for lands as a settler. Not recommended.

John May. Stating that he is of age, and praying for lands as a settler. Not recommended until further proofs are produced.

Haggai Westbrook. Praying for lands as a loyalist. Proofs of age, good behaviour and competency to cultivate wanting.

Jeptha Skinner. Praying for lands in addition. Not recommended.

Joseph Senn. Praying for lands in right of his wife. Not recommended.

Hannah Spencer. Praying for lands. Not recommended.

Joseph Senn. Praying for a town lot in Newark. Not recommended.

Michael Sherk. Praying for lands for himself and family. Committee see no ground for recommending this petitioner.

William Peters. Praying for lands as a settler. Not recommended.

Joseph Pepin. Praying for lands as a settler. Referred with the other Canadians to Lower Canada.

Alexander McQueen. Praying for a town lot in Newark. Not recommended.

John McEwen. Praying for a town lot in Newark. Not recommended.

James McLauchlin. Praying for family lands. Not recommended.

Ichabod Marshall. Praying for lands as a settler and for a town lot in Newark. Not recommended for a town lot. Residence and character wanted to be admitted as a farmer.

John Westbrook. Praying for lands in addition to 200 acres received. No ground of recommendation.

Alexander Perry, Serjeant Major, Queen's Rangers. Praying for lands. Petitioner will receive lands when discharged.

Mary Wilson. Praying for lands as a loyalist. Proofs wanting.

John Springer. Praying for lands as a loyalist. Not recommended.

John Stoffle. Praying for additional lands as a military claimant. Refused.

UPPER CANADA LAND BOOK C

11th April, 1797
to
30th June, 1797

11th April, 1797.

Council Chamber, at Newark.

Present: His Honour Peter Russell, Esq., Administering the Government; Hon. John Elmsley, Chief Justice, and Hon. David William Smith.

Read the following petitions:

The inhabitants of the 1st and 2nd townships of Hawkesbury complaining of the inaccuracy in the survey of their lands. Referred to the Surveyor General to report.

Augustus and Ebenezer Jones. Contested claim reported upon by the Surveyor General. Reference being had to the Surveyor General's report by which it appears that the lot 3, now 9 and 10, originally granted to the Jones's under certificate from the Land Board of Nassau, falls without the land allowed by the Missessagues to have been purchased from them the 22nd of May, 1784, and consequently within the jurisdiction of the Land Board. Ordered that the two certificates from the Land Board of Nassau to Ebenezer Jones and Augustus Jones dated the 4th of January, 1792, assigning lot 3 in the 1st concession with the broken front be confirmed and that the half of this lot being now No. 9 cannot in consequence be reserved.

Constantine O'Neil. Praying for lot 5 in the 2nd concession of Bertie. Upon reference to the Surveyor General's report: Ordered that lot 5 in the 2nd concession of Bertie with the broken front be granted to Constantine O'Neil.

Jennie and Lidia Ostrander. Praying for lands as loyalists. The petitioners not having substantiated their claim as U.E. Loyalists before the Justices in the Qr. Sessions, as directed, the prayer of their petition cannot be granted.

John Leslie. Praying to be confirmed in a lot he occupies in the rear of York. The order of the Administrator in favour of the petitioner confirmed.

George Thompson. Praying for land as a Lieut. in late Orange Rangers. The petitioner to adduce proofs that he quitted the Orange Rangers without any blot to his character as an officer and a gentleman.

Mary Fairchild. Praying to be confirmed in lots 17 in the 1st and 2nd concessions of Louth with their broken fronts. Ordered that notice be given to Mr. Hare, Mr. Fairchild, and Mr. Clark to attend the Council on Tuesday next.

Jonas Johnson. Praying for lands in addition to 200 acres which he has received as a military claimant. Not entitled to more land than has been granted him.

. . . Jennings. Praying for family lands. Ordered 200 acres family lands if not granted before.

John Bourdett. Stating that he has received 100 acres of land and praying for an addition thereto as a military claimant. Ordered 100 acres to make the quantity 200 acres with what petitioner has already received unless done before. Proofs wanting of his being entitled to military lands.

Hon. David W. Smith. Praying for lands for his daughter, Annie Smith. Ordered 1200 acres for Miss Annie Smith, the daughter of the Hon. D. W. Smith.

Jacob Ball, Senior. Praying to be confirmed in a transfer of one John Parks' lands. Ordered that the deed to John Parks be sent for to the Secretary's office for the inspection of the Board on Tuesday next.

William Pickard. Praying for a town lot in Newark. A town lot ordered.

Thomas Martin. Praying for family lands. Ordered 200 acres of family lands if not granted before.

Ernest Martin. Stating that he has received 200 acres of land and praying for an addition thereto, and family lands. Ordered 300 acres altogether including his family lands.

Daniel House. Praying for family lands. Ordered 200 acres family lands if not granted before, his wife having been included in a former order.

John McMicking. Praying for lands as a military claimant. The petitioner to appear.

Read the Surveyor General's report on the township of Townsend. Ordered that notice be given by advertisement from the Council office to all persons claiming lots of land in the township of Townsend under the recommendations of Paul Averill, as agent to Mr. Andrew Pierce, that they appear before the Council on the Tuesdays and Fridays of every week between this date and the 1st of June, to make it appear that they come under that description of settlers whom the said Averill was authorized to recommend. Before they can be confirmed in their lots they are likewise required to bring proofs of their having improved, or commenced an improvement on the lots they were permitted to occupy.

N.B. Those persons who have already covered their lots by warrants are not meant to be included in this order and need not attend.

John Milton. Revised the petition of John Milton. (Read 25th February). It appearing to the Board that the petitioner has rendered himself unworthy of any favour from Government by his running off to the States and seducing a black servant belonging to Mr. Clark to accompany him, the Order of Council in his favour is rescinded and ordered in consequence that notice be sent to the Surveyor General's office not to issue any description for John Milton.

Adjourned.

18th April, 1797.

Council Chamber, at Newark.

Present: His Honour Peter Russell, Administering the Government; Hon. John Elmsley, Chief Justice, and Hon. David William Smith.

Read the Surveyor General's report on the petition of Mathew Howard, Foster Page, and Archibald McNeil, referred to him on the 5th July, 1795. Ordered that the petitioners be located in the situations and including the fall they pray for if the fall has not been already granted to Abel Stevens.

Read the following petitions:

John Gamble. Praying for lot 12 on the east side of the Don formerly granted to Willoughby Willard. It appearing that the heirs of Willoughby Willard have not come in to claim the lot appropriated to him and no improvement having been made thereon, lot 12 on the east side York in front is declared to be vacant. But it being of importance to the settlement of York that great care should in future be taken to whom the lands near York shall be granted—Resolved that in future no more than one farm lot in that neighborhood shall be granted to an individual, and even then only to actual settlers. Upon this principle the lot prayed for cannot be granted to the petitioner, he having already 100 acres near York and being about to leave the Province with his regiment.

Elizabeth Graham. Praying for lot 12 formerly granted to Willoughby Willard. Upon the principle this day adopted by the Board, lot 12 cannot be granted to the petitioner.

Christopher Robinson. Praying for lot 12 formerly granted to Willoughby Willard, and stating as a just claim thereto that he relinquished lot 13 on which there was a mill seat to accommodate the public, and further stating that he possesses no land in the neighborhood of York. Deferred coming to any resolution until it is known whether Mr. Robinson means to settle on lot 12, if it should be granted to him, and whether he has so much land due to him.

Benjamin Fairchild. Praying for lands for his father, mother, brothers and sisters. In consideration of the services of the father of the petitioner, and the large family he brought into this Province, ordered that 400 acres be granted to the mother, Melissa Fairchild, and 200 acres each to Peter Fairchild, Benjamin Fairchild, Joshua Fairchild, Isaac Fairchild, Mary Fairchild, Deborah Fairchild, and Ruth Fairchild, his children, exclusive of former grants.

Benjamin Fairchild. Stating that he has received 400 acres of land and praying for an addition thereto. The petitioner appears to have all the lands he is entitled to. Any specific lots he may wish for as part of his lands granted, he may apply for to the Surveyor General.

Benjamin Fairchild. Stating that he purchased 500 acres of land from Squire McCoy, and praying to be allowed to locate the said lands in his own name, McCoy being dead. The petitioner has not established his claim to a transfer of lands granted to Squire McCoy.

Jacob Birdsall. Praying for lands for himself, his brothers and sister, and for his late father's family lands. In consequence of the certificates adduced of the loyalty of the petitioner's father, ordered that the 450 acres which he would have been entitled to had he been living be granted, 200 acres equally among the children, and the family lands being 250 acres to the surviving parent, Elizabeth Birdsall, now Darling. The children will each receive 200 acres as they come of age.

John Hainer and Jacob Tederick. Praying for lands in addition. In consequence of the very respectable character of the petitioners, and the recommendation they have adduced to the Board, ordered 200 acres each in addition to former grants.

William Lawrence. Praying for lands for himself and wife. Ordered 200 acres.

Jacob Sypes, late Butler's Rangers. Praying for his military and family lands, and lands in right of his wife as a U.E. Loyalist. Ordered that No. 9 in the 3rd concession of Bertie be confirmed to the petitioner, and ordered 200 acres in addition as military lands and 100 acres as family lands if not granted before. Also ordered 200 acres to the petitioner's wife, the daughter of Frederick Williams, a U.E. Loyalist.

James Richardson. Praying for lands in addition as a military claimant. The petitioner has received his portion of land.

William Brown. Praying to have his military lands completed. Ordered 100 acres in addition to complete his military lands.

John Evans. Praying to be confirmed in lot 1 in the 5th concession of Burford. Permitted that lot 1 in the 5th concession of Burford be assigned to the petitioner, if no lands have been granted before.

Edward Haggerty. Praying for lands as a settler. Ordered 200 acres.

Edward Hunt. Praying for lands in addition to 180 acres which he has received. Ordered 100 acres in addition.

John Young, Junior. Praying for lands as the son of Lieut. Young of the Indian Department. Ordered 300 acres.

Godfrey Lintz. Praying for lands as a military claimant. Ordered 200 acres in Tobycock.

John Harris. Praying for family lands. The petitioner's family land has been already covered by the additional 100 acres granted by the Lieut. Governor.

Martin Harris. Praying for family lands as a U.E. Loyalist. When the petitioner has been in the Province 12 months from the 11th of last March and adduces certificates of his good conduct, he will receive 200 acres.

Alexander Brown. Praying for lands as a settler. Ordered 200 acres.

Michael Amus, of the Queen's Rangers. Praying for lands. The petitioner must wait until he is discharged.

Adam Lewis, a black man. Praying for lands. Negroes, unless they have served as soldiers, are not entitled to lands in this Province.

Mathew Lymburner. Praying to be confirmed in the lands he possesses in Townsend, and for land in right of his wife as a loyalist. Confirmed in lot 2 in the 2nd concession of Townsend. Reference to be had to the U.E. list for the claim of the petitioner's wife.

Jeremiah Kettle. Praying for lands. Ordered 200 acres.

Henry Wilson. Praying for lands as a settler. When the petitioner has been in this Province for 12 months from the 5th of last July he may apply for land.

Adjourned.

25th April, 1797.

Council Chamber, at Newark.

Present: His Honour Peter Russell, Esq., Administering the Government; Hon. John Emsley, Chief Justice, and Hon. David William Smith.

Jacob Ball, Esq., produced before the Board a grant from His Majesty to him for 862 acres of land in the township of Newark, county of Lincoln, and Home District, dated the 10th February last, in which there happens a clerical error in the beginning of the 7th line—wherein the word "west" is inserted instead of "east;" and prayed the Honourable Board to order the said word "west" to be erased, and the word "east" to be substituted in its place. Reference being had to the Acting Surveyor General, and he having reported that it is a clerical error as in the assignment of the lands in question it is expressed "east" and not "west," but that in copying the description it is supposed the word "west" had by mistake been put in, not that of "east." Ordered that the grant be sent to the Attorney General, who is hereby authorized to erase the word "west" in the 7th line aforesaid and to substitute the word "east" in its place, and to give notice to the Register and Auditor of this alteration that the same may take place in their respective records.

Philip Bender. Praying for lot 144 in Stamford. The Surveyor General having reported that lot 144 has already been assigned to James Forsyth, the prayer of this petition cannot be granted.

Jacob Watson, John Wardler, etc., nominees of the township of Murray. Praying to have the term of settling the said township extended for two years. Inadmissible, the township of Murray having been thrown open by Proclamation dated 25th May, 1796.

Samuel Allen. Praying for lands for himself and other settlers. In consideration of the encouragement given by His Excellency the Lieut. Governor to the petitioner, ordered that 200 acres each be assigned to the petitioner, Samuel Allen, and to Jacob Hull, Harmonius Spier, Joseph L. Rawley and Cyrus P. Cornish who have come in with the petitioner.

William Francis. Praying for lands in right of his wife, as a U.E. Loyalist. Referred to the U.E. list.

Peter Weaver. Praying for family lands and to be confirmed in lots 8 and 9 in the 7th concession of Pelham. Ordered to be confirmed in lots 8 and 9 in the

7th concession of Pelham and 200 acres as family lands including the 100 acres granted to him.

Reverend Edmund Burke. Praying for lands. Ordered 1200 acres to the Reverend Mr. Burke.

James Russell. Praying for additional lands as an artificer, having received 200 acres only. Ordered 400 acres in addition.

Joseph Easton, nominee of the township of Wolford. Praying for 1200 acres of land for himself and spouse and 200 acres to each of his children. To lie over for further consideration.

Haggai Cook. Praying for lands as a settler. Ordered 200 acres if not granted before.

Jacob Crane. Praying for lands as a settler. Ordered 200 acres if not granted before.

Henry Meyers. Praying for lands as a military claimant. No lands granted to the petitioner.

Jacob Bowman. Praying for lands as a settler. Ordered 200 acres.

John Bowman. Praying for lands as a settler. Ordered 200 acres.

John Fanning. Praying for lands in right of his wife as a loyalist, and for lands in addition to himself, having received only 176 acres. Ordered 200 acres to the wife of the petitioner, the daughter of a U.E. Loyalist, and 100 acres in addition to himself.

William Forsyth. Praying for lands in right of his wife as a loyalist. Ordered 200 acres to Mary, the wife of the petitioner, the daughter of a U.E. Loyalist.

Hugh Wilson. Praying for lands as a loyalist. The petitioner having behaved most insolently before the Board, ordered that no petition from him shall be received or lands granted.

Jonathan Lane. Praying for family lands and to be confirmed in lot 12, 6th concession of Gainsboro. Ordered to be confirmed in lot 12, 6th concession of Gainsboro and 250 acres family lands if not granted before.

James Macklem, merchant, Chippawa. Praying for lands. Ordered 600 acres.

James Sampson. Praying for lands as a settler. Ordered 200 acres.

Peter Weaver. Praying for lands as a settler. Ordered 200 acres.

John Rowe. Praying for lands as a military claimant. Ordered 500 acres including former grants to complete his military land as a reduced serjeant.

Frederick Williams. Praying for family lands and for lands as a military claimant in addition to those received. Ordered 100 acres to complete the petitioner's military lands, and 400 acres for his family lands if not granted before.

John Schram. Praying to have his military lands completed. Ordered 200 acres in addition to complete petitioner's military lands if not granted before.

George Adams. Praying for lands in right of his wife as a loyalist. Ordered 200 acres to the wife of the petitioner, the daughter of a U.E. Loyalist.

Samuel Corwin. Praying for lands as a settler. Ordered 200 acres if not granted before.

Christian Wanner. Praying for lands in right of his deceased father. It does not appear that the petitioner's claim on his father's account is founded.

Fanny Braily. Praying for lands as a loyalist. Ordered 200 acres being the daughter of a U.E. Loyalist.

George Cosbey. Praying for family lands and to have his military lands completed. Ordered 100 acres to complete his military lands and 150 acres family lands if not granted before.

Joseph Lane. Praying for family lands and to be confirmed in lot 11, 6th concession of Gainsboro. Ordered to be confirmed in lot 11, 6th concession of Gainsboro and 200 acres family lands if not granted before.

John Chisholm. Stating that he purchased from Lot Regan, a military claimant, Land Board certificates for 300 acres, and praying to be allowed to locate the same and that the deed may issue in his own name. In consideration of the Land Board having consented to the purchase, the Board permits a location to be made in his favour of 300 acres, due to Lot Regan, as by a certificate from P. Frey annexed to his petition, but this not to become a precedent in such cases in future.

William Markle. Praying to have his location extended to 1200 acres, as promised to him by His Excellency Lieut. Governor Simcoe. The prayer not granted.

John Garner. Praying for lands in right of his father as a military claimant, and in right of his wife as a loyalist. Ordered 200 acres to the petitioner's wife, the daughter of a U.E. Loyalist, if not granted before.

Wabekanins Sons, Missessagues. Praying for lands in right of their late father. No precedent.

Mr. Alexander McDonell appeared before the Board and requested leave to surrender his claim to lot 10 in the 1st concession of Flamboro East which may in consequence be assigned to Mr. Augustus Jones.

Read the report of the Acting Surveyor General respecting the frauds of Serjeant George Campbell. It appearing from the report that Serjeant George Campbell had received by certificates from different Land Boards the whole of the lands to which he was entitled, viz.: 500 acres as a serjeant and 200 acres as family lands previous to his application to the Governor in Council for lands under the same claim, it is adjudged by the Board that the said George Campbell has by his concealing from the Board these previous grants, and thereby obtaining orders for 500 acres more than he was entitled to, rendered himself unworthy of any favour from the Crown. Ordered therefore in consequence that all Orders of Council and certificates for lands in his favour be rescinded. It is likewise ordered that public notice be given from the Council office of this order, that all persons may be cautioned against purchasing any Land Board certificates or Orders of Council in favour of the said Serjeant George Campbell, and also cautioned against concealments and frauds of the like nature in their applications to Council, as they may be assured that the same punishment will follow the detection of them.

Read the petition of William Dickson complaining that the Secretary of the Province has refused to give deed to U.E. Loyalist without his fee. Ordered that the Secretary of the Province do endeavour to satisfy himself as well as the nature of the case will admit of the identity of the persons applying for their deeds though the names may not be spelt exactly like those which appear in the deeds, and when he cannot satisfy himself, application must be made to the Council for instruction, but when the latter mode can be avoided the Secretary is desired to do so on account of the great loss of time and trouble likely to be occasioned by such applications to the injury of the King's service.

Joseph Easton, Senior. Ordered in consideration of the expenses the petitioner has incurred that the lots unassigned in this report be assigned to Joseph Easton and the other names opposite on their taking the oaths, etc.

2nd May, 1797.

Council Chamber, at Newark.

Present: His Honour Peter Russell, Esquire, Administering the Government; Hon. John Elmsley, Chief Justice, and Hon. David William Smith.

Read the following petitions:

Josiah Cass and others. Praying for lands. If the allegations set forth in the petition are found by the Deputy Surveyor of the district on enquiry to be as therein stated, the Board consents to the prayer of it to the extent of 200 acres each to Josiah Cass, Simeon Sherman, Walter Chase, Senior, Walter Chase, Junior, John Chase, Elishu Cass, Joseph Cass, William Sherman, Daniel Cass, and John McIntire; and the remaining lands due to Josiah Cass on the certificate and promise made him including his family lands.

Mary Runnion. Praying for lands as a loyalist. Ordered 200 acres as the daughter of a U.E. Loyalist.

Justus Stevens having this day appeared before the Board and prayed to surrender No. 11 in the 1st concession of Ancaster and to receive in lieu a lot of 200 acres in the township of Burford, permitted.

Lieut. Robert McDougall. Praying for military and family lands. Ordered 2000 acres of land to Lieut. John Robert McDougall for his military lands, and 250 acres for family lands, having a wife and four children.

Alexander Aitkin. Stating that he purchased lots 21 and 22, including Point Pleasant in Marysburgh, from John Collins, Esquire, and praying to be confirmed in the same. It appearing to the Board that John Collins, Esquire, did consent before his death that this certificate should be transferred to Alexander Aitkins, Esquire, Deputy Surveyor, for a valuable consideration by him paid to the said John Collins, the Board consents to the transfer of this certificate to Alexander Aitkin for the lots 21 and 22 in Marysburgh herein assigned, and that the King's deed shall issue accordingly.

Alexander Duff, of Malden, merchant. Praying for lands in addition to 600 acres which he has received. The Board having taken this petition into their consideration accede to the prayer of it and order that the lands granted to the petitioner be made up 1200 acres.

Henry Nier. Praying for family lands. Ordered 350 acres family lands if not granted before.

Jacob Nier. Praying for lands as a settler. Ordered 200 acres.

Henry Nier, Junior. Praying for lands as a settler. Ordered 200 acres.

Hart Smith. Praying to have his family lands completed and for additional lands as a military claimant. Ordered 50 acres to complete his family lands. Discharge wanted to entitle him to military lands.

John Warren, Senior. Praying for lands in addition. Ordered 100 acres as prayed for to complete the quantity ordered him by the Governor of the Lower Province.

Joshua Ferris. Praying for lands as a military claimant. Ordered in consequence of his wounds, services and character, 600 acres to be appropriated for the petitioner's immediate accommodation.

Benjamin Kinzie. Revised his petition. The petitioner being dead without having availed himself of a former order, ordered that No. 18 in the 3rd concession of Humberstone be granted to his widow, Dorothy Kinzie, and that 200 acres be granted for the benefit of his seven children.

Benjamin Wilson. Praying for lands in addition. Ordered 600 acres to complete 1200 acres, the proportion granted to magistrates, if no more land has been granted to the petitioner than he herein sets forth.

Martin Shoup. Praying for lands as a settler. Ordered an appropriation of 200 acres to the petitioner to be confirmed by deed in twelve months from the 1st of May.

John Markley. Praying for lands as a settler. Granted the prayer of this petition for 200 acres to be appropriated and confirmed by deed when petitioner brings his family into the Province.

Christopher Shoup. Praying for lands as a settler. Ordered 200 acres if not granted before.

John Shoup. Praying for lands as a settler. Ordered 200 acres to be appropriated and confirmed by deed in fifteen months from the present date.

John Lymburner. Praying to be confirmed in his lands in Townsend, and for lands in right of his wife, a loyalist. Ordered 200 acres to the wife of the petitioner, the daughter of a U.E. Loyalist, and to be confirmed in a lot of 200 acres in the township of Townsend, if the petitioner has not received land before.

Edward Hayward. Praying for land as a settler in addition to 200 acres which he has received. Ordered 200 acres in addition.

James Clark, Senior. Praying for family lands. Ordered 450 acres as family lands in addition to former grants.

Joshua Nunn. Praying for lands as a settler. Ordered 200 acres.

Christian Whitsell. Praying for family lands and lands as a military claimant. Ordered 200 acres for himself and 50 acres family lands if not granted before.

Henry Frank. Praying for lands as a settler. Ordered 200 acres.

Israel Swayze. Praying for lands in addition. The petitioner has received the whole he appears to be entitled to.

William Dunmead. Praying for lands as a military claimant. Ordered 200 acres if none granted before.

Thomas Mathews. Praying for a town lot in Newark. Ordered a town lot in Newark.

Joseph Doan. Praying for family lands. Ordered 200 acres as family lands.

Jonathan Kinzie. Praying for family lands, and to be confirmed in lots 19 and 20 in the 1st concession of Humberstone. Ordered 500 acres including family lands, if not granted before, and to be confirmed in lot 20 in the 1st concession of Humberstone in part of the above order.

John Schnor. Praying for family lands. Ordered 150 acres for family lands if not granted before.

Moses Merrit. Praying for lands as a settler. Ordered 200 acres if none granted before.

Caleb Traverse. Praying for lands as a settler. Ordered 200 acres to be located in Dean's appropriation in Caistor.

Michael Huffman. Praying for lands for himself and family, and lands in right of his wife as a loyalist. Ordered 100 acres family lands if not granted before.

Nicholas Huffman. Praying for additional lands for himself, having received 200 acres, and lands for his wife and children. Ordered 100 acres for his wife and one child, family lands; the other children having claimed in their own right.

Abraham Webster. Praying for family lands and to be confirmed in his lands in Bertie. Ordered 700 acres for himself and family lands including the lands he now lives on, if none has been granted to petitioner before.

Obadiah Dennis. Praying for family lands and for lands as a settler. Ordered 200 acres for himself and 200 acres for family lands, if none granted before.

John Hodgkinson. Praying for lands in right of his wife as a loyalist. Ordered 200 acres to the wife of the petitioner, the daughter of a loyalist, if not granted before.

Joseph Dennis. Praying for family lands. Ordered 200 acres family lands if not granted before.

Ezekiel Dennis. Praying to be confirmed in lands ordered to him by Major Campbell. Ordered to be confirmed in the 500 acres ordered by Major Campbell to the petitioner for himself and family lands including the land he now lives upon.

Benjamin Sessions. Praying for lands as a settler. Ordered 200 acres.

Haggai Skinner. Praying for family lands. Ordered 100 acres for additional family lands.

Elijah Collard. Praying for family lands. Ordered 100 acres additional family lands if not granted before.

Joshua Robins. Praying for lands in addition, having received 200 acres. The petitioner has had the proportion granted to a settler.

Solomon Hyatt. Praying for lands as a settler. Ordered 200 acres if none granted before.

James Crane. Praying for lands as a settler. Ordered 200 acres.

Peter Hayton. Praying for lands as a settler. Ordered 200 acres if not granted before.

Mathias Smith. Praying for lands as a settler. Ordered 200 acres if none has been granted before.

Martha Burch. Praying to be allowed to relinquish her claim (as guardian to her infant son) to lot 105 in the town of Newark in favor of William and James Crooks. Consented to.

John Morningstar. Praying for lands as a settler. Ordered 200 acres.

The following persons having appeared before the Board praying to be confirmed in the lands assigned to them in the township of Burford by Abraham Dayton; ordered to Hugh Graham, Artemis Rogers, Nathaniel Landen, John Eaton, Ebenezer Henry, Nathaniel Lawrence, and David Palmer, each 200 acres and as Hugh Graham has by mistake placed himself on No. 11, a reserved lot in the 5th concession, the Surveyor General is permitted to remove the reserve for his accommodation.

Adjourned.

9th May, 1797.

Council Chamber, at Newark.

Present: His Honour Peter Russell, Esquire, Administering the Government; Hon. John Elmsley, Chief Justice, Hon. AEneas Shaw and Hon. David William Smith.

Read the following petitions:

Lieut. Isaac Friot. Praying to have his military lands completed. Ordered that the Surveyor General direct his deputy in the Midland District to make inquiry what quantity of lands have been granted to the petitioner and, upon his report, ordered that the quantity received by him be made up 2000 acres, the proportion of a subaltern officer.

Jacob Ball and family. Praying to be allowed to locate lands on the 20 Mile Creek. The prayer of this petition granted, but in the location the Surveyor General is directed not to appropriate more than one lot in front to each grantee.

Capt. Bouchette. Praying for lands for his daughters. Ordered that the 200 acres ordered to the daughters of the petitioner on their marriage be immediately appropriated and deeds issued for the same on the day of marriage or their coming of age.

Christian Wanner. Praying for lands in addition. In consideration of the petitioner's very meritorious services and the respectable recommendations which support him, the Board orders 200 acres in addition.

Isabella McDonell. Praying for lands as a loyalist. Ordered 200 acres as the daughter of a U.E. Loyalist.

Alexander Aitkin. Praying to have his lands completed to 1200 acres. The Board being satisfied of the truth of the petitioner's allegations, grant the prayer of the petition and authorise the Surveyor General to consider him as having only 100 acres, and to complete that with his other subsequent locations to 1200 acres agreeable to the Order in Council on the 5th September, 1793.

Joseph Lane. Praying for lands as a loyalist. Ordered 200 acres with permission to be located on Yonge Street.

Alexander Stewart. Praying for lot 97 in the town of Newark. It appearing to the Board from the certificates adduced that John Brown, alias Brookes, stated to be the original grantee, not having complied with the conditions under which he received it, and has forfeited all right thereto by his subsequent desertion, ordered that the lot 97 be granted to the petitioner.

John McDonell, in behalf of himself and his sons. Praying for a reserved lot, 7 in the 1st concession of Marysburgh. Ordered that lot 7 be not reserved as proposed, and granted to the petitioner agreeable to his prayer.

Alexander Wood. Praying for lands as a merchant. Ordered 600 acres if none has been granted before.

Philip Bender. Praying for additional lands. It appears that the petitioner received the proportion of land he is entitled to either as a Ranger or for family lands.

Andrew Templeton. Praying for lands in addition. In consequence of the petitioner being an old settler and having improved the town of Newark by building several houses, ordered 200 acres in addition.

George Chisholm. Praying for lands in addition. Ordered that the lands already granted to the petitioner be made up 1200 acres, the proportion allotted to magistrates, this to cover all claims of every sort.

John Chambers. Praying for family lands for himself and his mother. Ordered 100 acres family lands to the mother of the petitioner.

Hon. John Elmsley, in behalf of the Sheriff of York. Ordered that in the event of York becoming a separate district or division of a district, 100 acres be appropriated for the Sheriff in the 1st concession.

Read the following report from the Attorney General to "His Honour the Administrator: In obedience to Your Honour's directions, I have considered the petition of John Daly, to this annexed, and beg to submit to Your Honour that if His Majesty's deed hath not been delivered it may be revoked. That if the lot already granted to John Daly be only half an acre, and the lot now prayed for be no more (unless there be some reason that I am not acquainted with), the prayer of the petition may be granted, subject nevertheless to be revoked and cancelled upon the application (in due form) of the heirs of James Duncan, if the statement made in John Daly's petition be not strictly true, as in that case the King will be deceived in his grant. All of which is submitted to Your Honour's wisdom. (Signed) J. White, A.G., May 8th, 1797." Ordered that the deed to James Duncan, deceased, for a lot in the town of Newark, No. 22, be cancelled and another deed issue for the same in the name of John Daly agreeable to the prayer of his petition, but subject to the restrictions recommended by the Attorney General.

Adjourned.

10th May, 1797.

Council Chamber, at Newark.

Present: His Honour Peter Russell, Esquire, Administering the Government; Hon. John Elmsley, Chief Justice, Hon. AEneas Shaw and Hon. David William Smith.

Read the following petitions:

Lieut. David Cowan. Praying for 1000 acres of land in addition to 2000 which he has received as a military claimant. Reference being had to a petition from the officers of the Marine Department on Lake Erie, presented to this Board on the 22nd of June, 1793, wherein the petitioner claims 2000 acres as the proportion of land allowed to lieutenants of vessels during the late war, which claim was admitted, the Board does not consider themselves at liberty, conformable to the King's Instructions, to grant more land than the approved allowance to officers of that description.

Lieut. James Guthrie. Praying for lands as a military claimant subsequent to the peace of 1783. Ordered 1200 acres, being the proportion allowed to officers of the same description with the petitioner.

Lieut. P. M. Fortier. Praying for 1000 acres land in addition to 2000 which he has received as a military claimant. Reference being had to the petition from the officers of the Marine Department on Lake Erie, presented to this Board the 22nd of June, 1793, wherein officers of this rank being lieutenants of vessels during the late war, which claim was admitted, the Board does not consider themselves at liberty, conformable to the King's Instructions, to grant more land than the approved allowance to officers of that description.

Sarah McBride. Praying for lands in right of her deceased husband, the late Patrick Reed, a military claimant. Ordered 300 acres to James Reed and Hannah Reed, the children of the late Patrick Reed, a discharged soldier from the 5th Regiment serving in the Province.

William Ackler. Praying to be confirmed in 100 acres of land which he has received as a settler, for an addition thereto, and for family lands. Recommended for confirmation in No. 18, 2nd concession of Stamford, and an additional 100 acres as a settler, and 250 acres for family lands if not granted before.

William Coffin, Esq., Sheriff of the Midland District. Praying for a town lot in Kingston. Ordered that the prayer of this petition be granted.

Christopher Buchner. Praying for lands as a settler and for lands in right of his wife as a loyalist. Recommended for 200 acres as a settler. His wife also recommended for 200 acres as a U.E. Loyalist.

Lieut. David Cowan. Praying for a lease of the ferry near Fort Erie. The arrangements respecting ferries have not been yet determined but the petitioner may be permitted to continue in the occupation of the ferry at Fort Erie until further orders.

David Bearss. Praying for lands as a settler. Recommended for 200 acres as a settler.

Elizabeth Fogellay, widow. Praying for lands. Ordered 200 acres for herself and family lands.

Andrew Heron. Praying for lands in addition to 800 acres which he has received, and for lands in right of his wife as a loyalist. Ordered 400 acres in addition in consideration of petitioner's long residence and services in the Province.

Asal Bass. Praying for lands as a settler. Recommended for 200 acres.

Azariah Lundy. Praying for lands as a settler. Recommended for 200 acres.

Nancy Lepard. Praying for lands for herself and family. Recommended for 100 acres family lands.

Andrew Jones. Praying for an addition to 170 acres which he has received. Ordered 100 acres in addition.

Elizabeth Johnson, widow of Captain Johnson of the Indian Department. Praying for lands. Ordered 400 acres.

James Mills. Praying for lands as a settler. Recommended for 200 acres.

Stephen Secord. Praying for family lands and to have his military lands completed. Ordered that the petitioner receive 100 acres in addition to the 400 acres heretofore granted to complete the proportion given to serjeants, and 150 acres as family lands.

Joseph Price. Praying for lands in addition to 100 acres which he has received as a settler, for lands in right of his wife as a loyalist, and for family lands. Recommended for 100 acres to make up 200 acres for himself, if not already granted, and 200 more for family lands. His wife is also recommended for 200 acres as a U.E. Loyalist.

John Coltman. Praying to have his military lands completed. Ordered 100 acres in addition.

Parshall Terry. Praying for family lands and lands in right of his wife as a loyalist. Ordered to Rhoda Skinner, the wife of the petitioner, 200 acres as the daughter of a U.E. Loyalist. The petitioner has already received the utmost quantity of land that can be granted him.

Elias Smith. Praying to have his family lands completed. Ordered 50 acres in addition to complete his family lands.

Abraham Clendennen. Praying for lands in addition as a military claimant. The petitioner has already received his allowance of lands.

Nathaniel Haines. Praying for family lands. Certificate wanting for family lands.

Alexander McDonell. Praying that lot 12, with its broken front, in the 1st concession of Flamborough East, which is a reserved lot, may be assigned to him in lieu of lot 10 in the same concession, which he relinquished in favour of Mr. Augustus Jones. Confirmed, if the lot prayed for has not been appropriated to another by any former order, and the lot need not be reserved.

Lebbeus Fay. Praying for lands as a settler. Referred to Mr. Ingersoll for a location in Oxford-on-Thames.

Peter French. Praying for lands as a settler. Petitioner is now 18, to wait till of age.

Richard Harris. Praying for lands in right of his wife as a loyalist. Petitioner recommended for 200 acres as a U.E. Loyalist.

Jonathan Jones. Praying for lands as a loyalist. Recommended for 200 acres as a U.E. Loyalist.

Elizabeth Clark. Praying for lands. Recommended for 600 acres as the wife of a barrister, including former grants.

Martin Fultz. Praying for an addition to 250 acres of land which he has received as a settler, and for family lands. Petitioner appears to have received 250 acres, which are 50 acres more than he is entitled to. He appears entitled to 250 acres as family lands. He is consequently recommended for 200 acres as family lands.

John Buchner. Praying for lands as a settler. Deferred till petitioner has been 12 months in the Province. In the meantime an appropriation of 200 acres may be made for petitioner.

Joseph Palmer. Praying for lands as a military claimant. Recommended for 500 acres military lands, if not already granted, including former grants.

Constantine O'Neil. Praying for family lands. Recommended for 300 acres as family lands, if not granted before.

Joseph Wardell. Praying for family lands and for lands in addition to 150 acres which he has received. Recommended for 200 acres including former grants. No family lands.

Peter McMicking. Praying for a town lot at Newark. Recommended.

Abraham Nellis, son of the late Capt. Nellis of the Indian Department. Praying for lands in addition to 400 acres which he has received. Ordered 200 acres in addition.

James Thompson. Praying for family lands. Recommended for 100 acres as family lands.

William Molyneux. Praying to be confirmed in lot 74 in the township of Newark, and for a grant of lot 74 in the town of Newark. Recommended for confirmation in lot 74 and no town lot.

Ahijah Chambers. Praying to be confirmed in 300 acres which he has received as military lands, and for lands in right of his wife as a loyalist. Ordered 200 acres to Mary, the wife of the petitioner, the daughter of a U.E. Loyalist, if not granted before.

Asa Waterhouse. Praying for family lands. Recommended for 170 acres as family lands.

John Gill. Praying for lands as a settler. Recommended for 200 acres as a settler.

John Widener. Praying for lands as a settler. Recommended for 200 acres as a settler on producing a satisfactory character from Mr. Hamilton.

Nathaniel Waterhouse. Praying for lands as a settler. Recommended for 200 acres as a settler.

James McCauley. Praying for lands for his three sons. Ordered 1200 acres to Mrs. McCauley, the wife of the petitioner, being Surgeon-General of the Province, and 200 acres to each of his three children, John Simcoe, James and George.

George Woodley. Praying for lands in right of his wife as a loyalist. Petitioner's wife is recommended for 200 acres as a U.E. Loyalist.

John Sullivan. Praying for lands as a settler. Recommended for an appropriation of 200 acres when his family comes in, but no deed to issue until this day 12 months.

George Ball. Praying for lands in addition to 600 acres which he has received. The petitioner has received the quantity the Board judged proper to grant him.

Charles Thomas. Praying for lands as a settler, and a town lot at Newark. Recommended for 200 acres and a town lot in Newark.

David Brown, late surgeon's mate, 76th Regiment. Praying for a subaltern's proportion of lands. The Board has already decided on this petitioner's claim. The document adduced is only a warrant. The petitioner consequently has no claim to the proportions of land given to commissioned officers.

Thomas Schofield. Praying for lands. Recommended for 1200 acres.

Emanuel Steinhoff. Praying for 200 acres of land at Long Point, as the 200 acres he has received are not fit for cultivation. Not recommended.

Jacob Sevitz. Praying for family lands. Recommended for 300 acres family lands if not granted before.

Thomas Ingersoll. Praying for an indulgence of four or five months to settle the township of Oxford, and for leave to exchange lot 21, 1st concession, for any other vacant lot in that township. The Board does not judge it expedient to grant the prayer of this petition.

Staats Springsteen. Praying for lands in addition. The petitioner has already received his lands.

Staats Springsteen. Praying for lands for his children. It appears that the petitioner's children are illegitimate.

Peter Simmerman. Praying for lands in addition. Not recommended.

Benjamin Skinner, Junior. Praying for lands in addition to 200 acres which he has received. The petitioner having sold the land granted to him is not entitled to any further extension of His Majesty's bounty.

Hart Smith. Praying for lands in right of his wife as a loyalist. Ordered 200 acres to Peggy, the wife of the petitioner, as the daughter of a U.E. Loyalist, if not granted before.

Hannah Haines. Praying for lands as a U.E. Loyalist. Ordered 200 acres if not granted before.

Mathias Haun, Junior. Praying for lands in addition to 100 acres which he has received as a settler, and lands in right of his wife as a loyalist. The prayer of the petition granted with respect to the petitioner's own land, and 200 acres ordered to his wife, the daughter of a U.E. Loyalist.

George Slow. Praying for family lands. Recommended for 600 acres family lands.

Mathias Haun. Praying for family lands. Recommended for 550 acres as family lands.

George Wintermute. Praying for family lands. Recommended for 450 acres including former grants, proofs of his family lands being produced.

11th May, 1797.

Council Chamber, at Newark.

Present: The Hon. John Elmsley, Chief Justice, and Hon. David William Smith.

Read the following petitions:

Ann McPherson. Praying for lands as a loyalist. Recommended for 200 acres, petitioner being married.

Sarah Green. Praying for lands as a loyalist. Recommended, Charles Burtch being on the U.E. list.

Joseph Haines, Junior. Praying for lands in right of his wife as a loyalist. Petitioner's father-in-law's name is not on the U.E. list.

John Huett. Praying for 200 acres of land in right of his wife as a loyalist. Recommended, John Muckle being on the U.E. list.

Elizabeth Crysler. Praying for lands as a loyalist. Petitioner recommended as a U.E. Loyalist.

John McGill. Praying for lands as a settler. Petitioner came into the Province in March last. An appropriation recommended on the usual terms.

Dennis Shoff. Praying to be confirmed in 200 acres of land which he received during the recess of Council. Recommended for confirmation.

Thomas Cummings. Praying for land in right of his wife, Jenny Ramsay, as the daughter of a loyalist, and for family lands for one child born previous to the year 1789. The name of Ramsay is not on the U.E. list. Petitioner recommended for 100 acres family lands.

George Windecker. Praying for lands as a loyalist. Henry Windecker is on the U.E. list, recommended for 200 acres.

Robert Kemp. Praying for lands in right of his wife as a loyalist. Petitioner recommended for 200 acres as a U.E. Loyalist.

John Cassleman. Praying to have his military lands completed. Petitioner's lands to be made up 300 acres.

Martin Fultz. Praying to be confirmed in lot 12 in the 1st and 2nd concessions of Clinton with the broken fronts. Recommended for 200 acres in Clinton with the broken fronts.

Helen McDonell. Praying for lands as a loyalist. Recommended for 200 acres.

Dennis O'Reilly. Praying for lands as a Captain. Recommended for 200 acres, but referred to His Honour as to the petitioner's claim as a Captain.

Jacob Ball, Senior. Praying to have John Parkes' lands transferred to him. It appearing to the Board that Jacob Ball is legal transferee of John Parkes, and has given a valuable consideration for Parkes' land, ordered that the deed in favour of Parkes be cancelled and another issue in Jacob Ball's favour as his transferee for the same land described in the said deed, Jacob Ball paying the full fees for the new deed.

The following Land Board certificates being read, they are recommended to be confirmed if duly entered on the Quebec plan, and they do not exceed the quantity of land they respectively ought to have.

Jacob Ball, 200 acres,	Township	No. 3,	District of Nassau.
Jacob Ball, 200 acres,	do		do
Jacob Ball, 200 acres,	do		do
John Clement, 200 acres,	do	No. 1	do
John Clement, 200 acres,	do		do
William May, 200 acres,	do	No. 3	do
William May, 200 acres,	do		do
William May, 200 acres,	do		do
William May, 200 acres,	do		do
John Scram, 200 acres,	do		do
John Scram, 200 acres,	do		do
John Scram, 200 acres,	do		do
Stephen Fletcher, 200 acres,	do		do
Benjamin Smith, 200 acres,	do		do
Robert Bessey, Sen., 200 acres,	do		do
Stuffle Beninger, 200 acres,	do		do
John Misener, Sen., 200 acres,	do		No. 2 above Chippawa.
John Misener, Sen., 100 acres,	do		do
Henry Bougener, 200 acres,	do		do
John Ghent, 200 acres,	do		No. 7, Home District.

The following Land Board certificates being read, recommended for warrants to issue, if the nominees have had no lands before:

Margaret Allan, 200 acres; Benjamin Schooley, 200 acres; Esau Schooley, 200 acres; Peter Hopkins, 200 acres; Obadiah Hopkins, 200 acres; Jonathan Hagar, 200 acres; Lazarus Griffith, 200 acres; all in the Home District.

Adjourned.

12th May, 1797.

Council Chamber, at Newark.

Present: The Hon. John Elmsley, Chief Justice, and Hon. David William Smith.

Read the following petitions:

Mathias Bougener. Praying to have a Land Board certificate confirmed. Recommended to be confirmed if duly entered on the Quebec plan, it being the 200 acres he acknowledges to have received for his own location exclusive of his family lands.

Benjamin Clark. Praying for lands for himself as a settler, and in right of his wife as a loyalist. Recommended 200 acres as a settler. His wife also recommended for 200 acres as a U.E. Loyalist.

Elizabeth Hill. Praying for lands as a loyalist. Recommended for 200 acres as a U.E. Loyalist.

Margaret Baxter. Praying for family lands, and for lands as a settler. Recommended for 200 acres as a settler and 200 acres family lands.

Felter Scram. Praying for lands and to have his military lands completed. Recommended for 100 acres to complete his military proportion and 100 acres family lands.

Edward Gauley. Praying for lands as a settler and a town lot at Queenstown. Recommended for 200 acres as a settler.

Samuel Hammel. Praying for family lands. Certificate being produced, recommended for 100 acres family lands.

George Young. Praying for 20 acres of land to complete his allowance as a settler, and for 200 acres family lands. Certificate produced, recommended for 300 acres family lands.

Mary Clement. Praying for lands as a loyalist. Recommended for 200 acres as a U.E. Loyalist.

John Watson. Praying for lands. Recommended for 1200 acres, to be appropriated for a year from this date.

Calvin Cook. Praying for lands as a settler. Recommended for 200 acres.

Anne Lyons. Praying for lands as a settler. Recommended for 200 acres.

Noah Cook. Praying to be confirmed in 100 acres of land which he has received in Stamford as a settler, for an addition thereto, and for family lands. Recommended for 200 acres (including 100 acres in Stamford) and for 100 acres family lands, making 300 acres altogether.

Thomas Millard. Praying for lands as a settler. Recommended for 200 acres.

Haggai Cook, in behalf of his brothers and sisters. Praying for their deceased father's family lands. Martha, the widow of Haggai Cook, recommended for 450 acres family lands.

John Morden. Praying for lands in right of his wife as a loyalist. Eve Morden, recommended for 200 acres as a U.E. Loyalist.

Elsa Millard. Praying for lands as a loyalist. Recommended for 200 acres as a U.E. Loyalist.

Jonas Sypes. Praying for lands as a settler. Recommended for 200 acres.

Samuel Nunn. Praying to be confirmed in lot 12, 8th concession of Townsend. Recommended for confirmation.

Margaret Clow. Praying to have her family lands completed. Recommended for 150 acres to complete family lands.

John Campbell. Praying for lands as a settler. Recommended for 200 acres.

Alexander Markle. Praying for family lands. Recommended for 200 acres family lands.

Walter Roe. Praying for lands in right of his wife. Mrs. Roe recommended for 600 acres as the wife of a barrister.

John Reed, of Detroit. Praying for lands. Recommended for 600 acres as a merchant when he comes to settle in the Province.

The Reverend R. Q. Short. Praying for lands. Recommended for 1200 acres, being a clergyman of the Church of England.

Sarah Wier. Praying for lands as a settler. Recommended for 200 acres, if no land was ever given to her late husband.

Sophia Hainer. Praying for lands as a loyalist. Recommended for 200 acres as a U.E. Loyalist.

John Secord, Junior. Praying for family lands and to have his military lands completed. Recommended for 107 acres as military lands and 250 acres family lands.

Mathew Wormwood. Praying to have his military lands completed and for lands in right of his wife as a loyalist. Recommended for 100 acres to complete his military lands, if not granted before. (The name of George Wintermute is not on the U.E. list.)

Antoine Discompte Labadie. Praying for lands for himself, his two sons and his son-in-law. Recommended for 200 acres. His sons and son-in-law must apply for lands in their own persons.

Laurence Laurason. Praying for lands in right of his wife as a loyalist. Rachel Laurason recommended for 200 acres as a U.E. Loyalist.

James Hopkins. Praying for lands as a settler. Recommended for 200 acres.

John Secord, Senior. Praying for family lands. Recommended for 200 acres family lands.

Nancy and Margaret May. Praying for lands as loyalists. Recommended for 200 acres each, if each of the age of 21 years.

William Hunter. Praying for lands in addition to 200 acres which he has received as a settler. The petitioner has received all the lands he is entitled to.

Ussher Morgan. Praying for lands as a settler. Character being produced, recommended for 200 acres.

John Silverthorne. Praying for family lands. Certificate being produced, recommended for 150 acres of family lands.

Mary Segun. Stating that her late husband, Christian Jacobs, deceased, served in Butler's Rangers during the American War, that she has two children by the said Jacobs, that her said late husband received but 200 acres of land, and praying that the remaining 100 may be granted to petitioner. The 100 acres prayed for belong to the children who will have them when of age, or married.

Adjourned.

13th May, 1797.

Council Chamber, at Newark.

Present: His Honour Peter Russell, Administering the Government; Hon. John Elmsley, Chief Justice, and Hon. David William Smith.

Read the following letter from the Surveyor General to His Honour the Administrator:

S.G.O., 12th May, 1797.

Sir:

On the 21st of September last Your Honour directed me to locate a man by the name of Jacob Miesner, recommended to you by Captain Ryerse, on a farm lot in the vicinity of Long Point.

After searching the office I discovered that a man by the name of Jacob Misner had received an assignment on the 9th May, 1795 (No. 668), for 200 acres in Crowland upon a Land Board certificate of the 3rd May, 1791.

Presuming this to be the same person, although the orthography of the surname differed a little, I refused to locate him, upon Your Honour's order, and a warrant which he had lodged the day before, the 20th September (No. 276), for 200 acres until he gave me a certificate, conjointly with some other person, that he was not the Jacob Misner who claimed the lands in Crowland; in consequence of which he, with one John Misner, Senior, gave me the annexed certificate, upon which 200 acres were described in Woodhouse (No. 2125) on the warrant.

After this the Land Board certificate was sent to me to be described. Still conceiving there was another Jacob Misner, it was accordingly described (No. 2149), but there being some instrument in writing on the back of it, I could not divest myself of suspicion. I therefore wrote on the 21st February last to Jacob Misner of Woodhouse and to Jacob Miesner of Crowland, to know how they were distinguished but, receiving no answer, I began to make enquiries of several persons as to the unity of Jacob Misner and Miesner, and have reason to believe he is one and the same person, particularly from the information of one Peter Mathews, who says he has given him a valuable consideration for his land in Crowland.

In the hope, however, that this may not affect a second person, should there be another Jacob Misner, I am, etc.,

(Signed) D. W. Smith, A.S.G.

His Honour the Administrator.

Ordered that public notice be issued from the Surveyor General's office requiring Jacob Misner and Jacob Miesner to appear before him on a certain day to substantiate their respective claims to the two lots in question and, if they fail to do so, the Order of Council in favour of Jacob Misner for a lot in Long Point to be rescinded, as also the certificate for Crowland unless transferred by the sanction of the Land Board.

Read the following petitions:

Hermonus Haverland. Praying for lot 13 in Willoughby. It appearing that lot 13 herein prayed for was granted under a Land Board certificate to Patrick Conway, and since transferred under the sanction of the Board to Lewis Maby, the prayer of this petition cannot be granted.

Ensign Jonathan Fowler. Praying for his military lands. Ordered 2000 acres, being the portion of a subaltern officer, the appropriation to be now made, but no deed to issue until the petitioner brings in his family to settle.

Samuel Montgomery. Praying for lands as a settler. Ordered 200 acres.

Robert Denneston. Praying for family lands. Ordered 100 acres family lands.

Susannah Harris. Praying for lands as a loyalist. Ordered 200 acres as the daughter of a loyalist (U.E.) if not granted before.

Valentine Scram. Praying for lands in right of his wife as a loyalist. Ordered 200 acres as the daughter of a loyalist (U.E.) if not granted before.

Peter Thompson. Praying for family lands and for lands in addition to 300 acres which he received as a military claimant. The petitioner has already had more than his quantity including family lands.

Honora Edwards. Praying for lands in right of her husband, late a midshipman on Lake Champlain. The petitioner does not appear to have any claim on this Government.

Captain William Claus, Superintendent of Indian Affairs. Praying for town lots in Newark for himself, his wife and his mother. The prayer of this petition granted if so many lots are vacant.

John Thompson. Praying for family lands. Ordered 200 acres as family lands.

William Garner. Praying to have his military lands completed, and for an addition thereto. Ordered 100 acres to complete petitioner's military lands.

Bartholemy Dunn. Praying for lands in right of his wife as family lands. Proofs being produced, Margaret Dunn, late Margaret Haslip, recommended for 200 acres family lands.

Caleb Forsyth. Praying for lands as a settler. The petitioner having expressed a contempt for the favour shown him by the Board, no lands to be granted to him.

David Price. Praying for a town lot in Newark. The prayer granted.

Elizabeth Banta. Praying for lands as the widow of Lieutenant Banta. Ordered that a deed issue for the lands granted to Lieutenant Banta to his widow, Elizabeth Banta, and his three children, John Banta, Sarah Banta alias Van Wyck, and Elizabeth Banta alias Davis.

Doctor William Harffy. Praying for 3000 acres of land as a military claimant. However willing the Board may be to remunerate Doctor Harffy's services and merits, no more than 2000 acres can be given to officers of his rank.

Jonathan Nelson. Praying for 1200 acres of land as a settler. Ordered 400 acres.

William and John Wiers. Praying to be confirmed in lots 19 and 20 in the 3rd concession of Townsend. Ordered to be confirmed.

Daniel Hazen. Praying for 1000 acres of land in addition to former grants, in lieu of £78.16 New York currency due to him from the surveying department in which he was employed in 1788 and 1789. The Board can only lament the petitioner's case. The accounts are to be transmitted to the Secretary of State and permission asked to pay them out of the fund appropriated for the civil expenditures of this Province, but the petitioner's request cannot be complied with.

Adjourned.

16th May, 1797.

Council Chamber, at Newark.

Present: His Honour Peter Russell, Esq., Administering the Government; Hon. John Elmsley, Chief Justice, and Hon. David William Smith.

Read the following petitions:

Margaret Buchner. Praying for lands as a loyalist. Recommended for 200 acres as a U.E. Loyalist.

James, Jonathan and John Smith. Praying for lands as settlers. Recommended for 200 acres each, but there must be three warrants.

Peter Hopkins. Praying for lands as a settler. Recommended for 200 acres.

Henry Buchner. Praying for military and family lands. Recommended for 550 acres military and family lands if not granted before.

Joseph Smith. Praying for lands as a settler. Recommended for 200 acres.

Susannah Wilson. Praying for lands as a loyalist. Proof of age being adduced, recommended for 200 acres.

Anna Beyers. Praying for lands as a settler. Recommended for 200 acres.

Abraham Minor. Praying for lands as a settler. Recommended for 200 acres.

John Rice. Praying for lands as a settler. Character being produced, recommended for 200 acres.

Christian Vinecke. Praying for lands as a settler. Recommended for 200 acres.

Henry Haggle. Praying for lands as a settler. Recommended for 200 acres.

George Bradshaw. Praying for a town lot in Newark. Recommended for lot 68 in Newark.

Eve Durham. Praying for family lands, and for lands as a settler. Recommended for 250 acres family lands, and 200 acres as a settler if not granted before.

Elizabeth Moore. Praying for lands as a loyalist. Recommended for 200 acres.

William Lundy. Praying for family lands. Recommended for 300 acres family lands.

George Forsyth, as executor to the will of the late James Farquharson, Esq., Deputy Commissary General at the Post of Niagara. Praying that the proportion of lands granted to Captains may be granted him for the benefit of his heirs. Reference being had to a former resolution of Council on a petition from James Farquharson, it appears that the petitioner was considered to have received in Lower Canada the portion of land the Governor and Council judged him entitled to. The Board consequently does not regard themselves at liberty to make any addition especially as the petitioner, James Farquharson, is since dead. The prayer of this petition is, of course, refused.

Thomas Ridout, Esq. Stating that in a grant which has issued to him of 1200 acres in the township of Ancaster there is a mistake in the 7th line of the words "north westerly angle," instead of "south westerly angle," and that the usual words "to the place of beginning," are omitted. The Acting Surveyor General being present and stating to the Board that the word "north" is so inserted by mistake instead of the word "south," ordered that the deed be sent to the Attorney General and that he be directed to erase the word "north" in the 7th line and to insert the word "south" in the place thereof, and also to insert the words "to the place of beginning."

Ann Barnes. Praying for family lands, and for lands as a loyalist. Ordered 200 acres as the daughter of a U.E. Loyalist, and 200 acres family lands.

Reverend Thomas Raddish. Praying for a 100 acre lot in the front concession of York. Reference being had to the York Report, it appears that a 100 acre lot has been already appropriated to the protestant clergyman of York, the petitioner being considered in that light. Ordered that No. 11 in the first concession, and No. 16 in the third concession of York be granted to him as part of the 1200 formerly ordered.

Catharine Everingham. Praying for lands in Willoughby. Referred to the Surveyor General, and if Nos. 13 and 14 in Willoughby have not been appropriated, ordered that they be granted to the petitioner.

Mary Anne and Sarah Wilkins. Praying for lands as loyalists. Ordered 200 acres to Sarah Wilkins, daughter of Robert Wilkins, on the day of her marriage. Anne Wilkins having had the same grant by a former Order of Council, it need not be now repeated. Wives, except in very particular cases, are not given lands in the life time of their husbands.

Helen, Henerietta and Mary McDonell. Praying for lands as loyalists. Ordered 200 acres each to the daughters of Allan McDonell, a U.E. Loyalist, viz.: Helen, Henerietta and Mary McDonell, on their coming of age or day of marriage.

Peter Colerick. Praying for family lands, and for 600 acres in addition to former grants. Ordered 200 acres in addition to cover all claims for family lands.

John Mills. Praying for an additional grant of lands. Ordered 200 acres in addition.

Elizabeth Stringer. Praying for lands as a loyalist. Ordered 200 acres to the petitioner, the daughter of a U.E. Loyalist, if not granted before.

Peter Nougle. Praying for lands as a settler. Ordered 200 acres.

Ezekiel Dennis. Praying for family lands, and for lands as a settler. Wife and nine children, 500 acres; his own lands, 200 acres. Received 200 acres; due to him, 500 acres. Ordered 500 acres family lands as above, if not granted before.

Read the notorial copies of three Land Board certificates granted to Ralph and George Christie, in which they pray to be confirmed. Referred to the Acting Surveyor General, and if the grantees' names, concessions and lots correspond with the map transmitted to his office from that of the Surveyor General of Lower Canada, he is permitted to issue his descriptions the same as would have been done if the original certificate had been presented to him.

Adjourned to York.

5th June, 1797.

Council Chamber, at York.

Present: The Hon. John Elmsley, Chief Justice; Hon. Alexander Grant, Hon. AEneas Shaw and Hon. David William Smith.

The Committee recommend to Your Honour that lot 17 in the 1st concession, and lot 10 in the 2nd concession be granted to the Honourable Alexander Grant, and that lot 24, 1st concession, be confirmed to Commodore Bouchette. The destination of the lots in the 1st concession being 100 acres each cannot be altered as they depend upon the grantees building a good dwelling house on their front lots in the town of York, agreeable to the York Report. No. 10 in the 2nd concession confirmed to the Honourable Alexander Grant, as likewise No. 17 in the 1st concession to him, and No. 24 in the same concession to Commodore Bouchette, upon the specified conditions. Council office, 19th June, 1797. (Signed) Peter Russell.

The York Report being asked for, the Board declare that lot 13 in the 3rd concession, set down for Magnus Swanson, is vacant, and that lot 5, 1st concession, and lot 26, 3rd concession, set down for Mr. Osgoode, are vacant, and that lot 24, 3rd concession, set down to Lewis Grant, is vacant, and that lot 25, 3rd concession, set down to George Newman, is vacant, and that lot 39, 2nd concession, set down to Captain George Glasgow, is vacant, and that lots 60 to John Hayes, 62 to Samuel Backhouse, and 61 to Robert Franklin, west side of Yonge Street, are vacant, and that lot 14, 2nd concession, set down to Lieutenant Archibald McDonell, is vacant. Council office, 19th June, 1797. Confirmed, except to Hayes, Backhouse and Franklin, who have made improvements and pray to be heard. (Signed) Peter Russell.

Ordered that a letter be written by the Clerk of the Council to the following persons to appear by themselves, or attorney, before the Council to satisfy the Board whether the conditions on which they were permitted to occupy their lots on Yonge Street have been complied with:

Thomas Hinds,	Lot	63,	west	side.
William Jarvis, Esq.,	"	49,	east	"
William McLenan,	"	50,	"	"
Thomas Philips,	"	82,	west	"
Thomas Kennear,	"	81,	"	"
W. Birdseye Peters, Esq ,	"	48,	east	"
John Philips,	"	51,	"	"
William Smith,	"	39,	west	"
Thomas Lyons,	"	42,	"	"
Samuel Heron,	"	49,	"	"
John McKay,	"	64,	"	"
Edward Wright,	"	67,	" .	"
William Graham,	"	77,	east	"
Charles Feathers,	"	79,	"	"
Frederick Smith,	"	78,	"	"
Bernard Van Weide,	"	51,	"	"
L. C. Brown,	"	53,	"	"
D. C. Brown,	"	57,	"	"
James McCauley, Esq.,	"	65,	west	"
Richard Richard,	"	25,	east	"
John McDougall,	"	3,	west	"
. . . Johnson,	"	20,	"	"
Abraham Johnson,	"	19,	"	"
Nicholas Johnson,	"	20,	east	"
Thomas Johnson,	"	21,	"	"
Lawrence Johnson,	"	19,	"	"

Gilbert Berry, John McCarley, Abraham Iredele, William Yeoman, John McBride, Frederick Hord, Jehu Riley, Elizabeth Thompson, Cyrus Everett, Abner Miles, Bemsley Peters, for enquiry.

Council office, 19th June, 1797. Confirmed. (Signed) Peter Russell.

Read the following petitions:

Davenport Phelps. Praying for 1200 acres of land, and for a further delay in settling the township of Glanford.. Recommended for 1200 acres. The unlocated part of the tract, set apart for petitioner and Wheelock, is thrown open, the locations confirmed.

Benajah Mallory. Praying for 1200 acres as one of the original associates for settling the township of Burford, and for a further delay to settle the same. Recommended for 1200 acres including former grants, and his wife recommended for 200 acres. The unlocated parts of the township to be thrown open for other applicants.

Isaac Williams. Praying for lands as a settler. Recommended for 200 acres as a settler.

Thomas Horner. Praying for 1200 acres each for himself and his brother, Stacey Horner, and for a further delay in settling the township of Blenheim. Recommended for 600 acres. The township of Blenheim recommended to be thrown open.

Adjourned.

19th June, 1797. Confirmed. (Signed) Peter Russell.

7th June, 1797.

Council Chamber, at York.

Present: The Hon. John Elmsley, Chief Justice; Hon. Alexander Grant, Hon. AEneas Shaw and Hon. David William Smith.

Read the following petitions:

Lieut. John Bromhead, Ass't. Deputy Quarter Master General. Praying for lands as a military claimant. Officers in the situation of the petitioner having received grants of lands, petitioner is recommended for 1200 acres on the usual conditions; but at the same time, it is earnestly requested by the Committee that hereafter no lands be granted to any officer casually resident in the course of his duty in this Province, and of any corps not expressly attached to it.

Lieut. John Caddy, Royal Artillery. Praying for lands as a military claimant. Officers in the situation of the petitioner having received grants of lands, petitioner is recommended for 1200 acres on the usual conditions; but at the same time, it is earnestly requested by the Committee that hereafter no lands be granted to any officer casually resident in the course of his duty in this Province, and of any corps not expressly attached to it.

William Chewett. Praying for lands as a military claimant. Recommended for 2000 acres including former grants.

Thomas Ridout. Praying for a front town lot in York. Recommended for a front town lot in York, provided it does not interfere with previous arrangements.

Benjamin Green. Praying to be confirmed in lot 15, 1st concession of Townsend. Recommended to be confirmed in lot 15, 1st concession of Townsend.

Josiah Burk. Praying for lands as a settler. Deferred till a year from this date, petitioner not being of age.

Daniel Lightheart. Praying for family lands and to have his military lands completed. Recommended for 400 acres to complete his military and family lands.

Elizabeth Fairchild. Praying for lands as a settler. Recommended for lot 12 in the 1st concession of Townsend.

James Clark, Junior. Praying for a lot in the town of York. Recommended for a town lot in York.

Thomas Paxton. Praying for a front lot in the town of York. Recommended for a back lot in the town of York to be appropriated for 12 months on condition of improving within that time.

William Reynold. Praying for 1200 acres of land as appropriee of a tract of 10,000 acres on the River Thames, and for a further delay to settle the same. Recommended for 1200 acres, the tract to be thrown open.

Humphrey Waters. Praying for a town lot in York. Recommended for a town lot in York to be appropriated for 12 months on condition of improving thereon within that time.

William Allan. Praying to be permitted to relinquish a patent which he has received for a town lot in the town of York, and requesting that a front lot may be granted to him in lieu thereof in the said town. Recommended for a front lot in York subject to previous arrangements, such lot to be appropriated for 12 months on condition of improving thereon within that time.

Alexander Wood. Praying for a front lot in the town of York. Recommended for an appropriation of the lot immediately behind that chosen by Mr. Allan on condition of improving the same within 12 months.

Jacob Herkemer. Praying for a front lot in the town of York. Recommended for an appropriation of a front lot in the town of York subject to previous arrangements and on condition of improving the same within 12 months.

Jacob Herkemer. Praying for lands as a loyalist. Recommended for 600 acres as the son of a Captain.

Catherine Markland. Praying for lands as a loyalist. Recommended for 600 acres as the daughter of a Captain.

Joseph Hunt. Praying for lands as a military claimant. Recommended for 500 acres in Tobico as a discharged serjeant.

John Ireland. Praying for lands as a military claimant. Recommended for 200 acres.

William Ross, of Montreal. Praying for lands. The petitioner must come and fix his residence in this Province before his petition can be attended to.

Archibald McDonell. Praying for lands in behalf of the heirs of his deceased brother, Allan McDonell. The prayer of this petition is inconsistent with general rules.

Wheeler Douglass. Praying for 1000 acres of land in addition to 200 which he has received as a settler. Recommended for 200 acres in addition to former grants.

Joshua Fairchild. Praying to be confirmed in lot 12, 2nd concession of Townsend. Recommended for lot 12, 2nd concession of Townsend in part of 400 acres granted.

William Demont. Praying to be permitted to relinquish his claim to lot 22, 3rd concession of York, in favor of Mr. Denison. Recommended that a warrant issue to John Denison of the above-mentioned lot.

John Conn. Praying for lands as a military claimant, and for a town lot in York. Recommended for an appropriation of 400 acres until he brings his wife and children into the Province and a town lot in York on the same terms.

Michael Tennery. Praying for 200 acres as a settler, and a town lot in York. Recommended for an appropriation of 200 acres for 12 months, and a town lot in York on the same conditions.

Richard Cartwright. Praying for lands for his four children. The four children of the Honourable Richard Cartwright recommended for a grant of 1200 acres each.

Richard Robinson. Praying for lands. Recommended for 600 acres.

William Crooks. Praying for a town lot in York. Recommended for an appropriation of a lot in York on condition of improving the same within 12 months.

Adjourned.

19th June, 1797. Confirmed. (Signed) Peter Russell.

10th June, 1797.

Council Chamber, at York.

Present: The Hon. John Elmsley, Chief Justice; Hon. Alexander Grant, Hon. AEneas Shaw and Hon. David William Smith.

Read the following petitions:

David William Smith. Praying to be confirmed in the lot he now occupies in the town of York, and another immediately in the rear adjoining thereto to Mrs. Smith. Recommended.

Mrs. Anne Smith, widow. Praying for a town lot in York. Recommended.

Christopher Robinson. Praying for a lot in the township of York formerly ordered to a Mr. Willard, being determined to build thereon and improve the same. Recommended for confirmation on the conditions proposed by the petitioner.

John Denison. Praying for a front lot in the town of York. Recommended.

xWheeler Douglass. Praying for 800 acres of land in addition to 400 which he has received as a settler. In obedience to His Honour's request the Committee have taken this petition into their consideration and on mature deliberation of all the circumstances of the case and of the consequences that might, and most probably would, eventually follow from a compliance with the prayer of it, are satisfied that the petitioner has received all the lands he has any pretensions to.

John Askin. Praying for lands in behalf of his children. The seven children of the petitioner, viz.: John, Theresa, Alice, Eleanor, Charles, James and Alexander, are recommended for 600 acres each.

James Clark, Junior, Clerk of the Legislative Council, and Angus McDonell, Clerk of the Assembly. Praying for a 100 acre lot at York. It appearing that Mr. McDonell has already a farm lot in the township of York and that Mr. Clark has none, and it being thought expedient that the remaining lots of 100 acres each should be reserved, the Committee do not recommend the prayer of this petition, but recommend Mr. Clark for a farm lot in the township of York in part of former grants, on the usual conditions, to put him on a footing with the Clerk of the Assembly.

John McGill, Esq. Praying for a front lot in the town of York. Recommended.

xDavenport Phelps. Praying to be reimbursed for his expenses of surveying the township of Glanford, and for 1200 acres of land for each of his three sons, Silvester Oliver, George Davenport and William Alexander. The claim of the petitioner for indemnification for the expense and trouble of the survey said to be made by him must stand over until it is known whether the survey has been made properly. His claim for 1200 acres for each of his children is wholly unfounded and inadmissible.

xDavenport Phelps. Also praying that a small portion of the western part of Glanford may be appropriated for eight weeks longer, to receive twenty or thirty families whom he expects in from the States within that time. The Committee of Council prays His Honour most unanimously that the prayer of this petition may lie over for consideration as they do not wish, in the absence of any one of the Executive Council, to recommend to His Honour the longer appropriation of any tract whatever, as it is presumed that settlers as they arrive will find suitable locations among the vacant lands of the Crown, and they have no doubt but the precedent would operate much to the injury of the Province.

Captain Archibald McDonell. Praying to have his military lands completed. Recommended for 2000 acres to make up his military lands.

Ensign Ranald McDonell. Praying to have his military lands completed. Recommended for 1500 acres to make up his military lands.

Bryan Crawford. Praying for lands. Recommended for 1200 acres, including former grants, as a magistrate.

Jeremiah Wood. Praying for lot 5 on the Carrying Place in the township of Murray, and for an addition thereto as a military claimant. Recommended for confirmation in lot 5 on the Carrying Place if the deputy surveyor of the district sees no objection. Recommended also for 100 acres in addition.

xJoseph Clark. Praying for an addition to 400 acres of land which he has received. Inadmissible.

John Holloway. Praying for a town lot in York and to be confirmed in a lot he occupies on Yonge Street. Recommended for a town lot in York, and for confirmation in the lot on Yonge Street.

Honourable Alexander Grant. Praying for lands for Mrs. Grant and for his daughter, Mary Grant. The wife and child, Mary, of the Honourable A. Grant, recommended for 1200 acres each.

xStephen Conger. Praying for lands as a loyalist. Recommended for 200 acres.

Peter Conger and Rachel Conger. Praying for lands in right of the deceased David Conger. Inadmissible.

James Crandford. Praying for lands as a military claimant, and for a town lot in York. Recommended for 500 acres as a discharged serjeant in Tobicot, but no town lot.

Richard Wilson. Praying for lands as a military claimant. Recommended for 400 acres military lands in Tobicot.

Mary Conger. Praying for lands as a loyalist. Recommended for 200 acres.

Willson Conger. Praying for lands as a loyalist. Recommended for 200 acres.

Alexander Chisholm, curator to the estate of the late Captain George Singleton. Praying that he may be permitted to locate for the benefit of the heirs the remainder of Captain Singleton's military lands. The heir or heirs of Captain Singleton recommended for 2368 acres to make up his military lands.

xWilliam Chewitt, senior deputy surveyor and draftsman, and Thomas Ridout, principal clerk in the Surveyor General's office. Praying for a grant of one of the 100 acre lots adjoining the town of York. Recommended for 50 acres each in one of the 100 acre lots in the 1st concession west of the Don.

Mrs. E. Small. Praying for a town lot in York. Recommended.

Adjourned.

Council office, 19th June, 1797. Confirmed, except those with crosses. (Signed) Peter Russell.

12th June, 1797.

Council Chamber, at York.

Present: The Hon. John Elmsley, Chief Justice; Hon. Alexander Grant and Hon. AEneas Shaw.

Read the following petitions:

xLemuel Hedge. Praying for lands for himself and his brothers as settlers. The petitioner must have resided twelve months in this Province before this petition can be taken into consideration. The same order extends to his brothers.

William Sherrard, Junior. Praying for 200 acres of land. Recommended.

John Smith. Praying for 400 acres of land in addition to 200 which he has received. On perusing further evidence, recommended for 600 acres including former grants.

Abraham Cronk, Senior. Praying for family lands and for lands as a settler. Recommended for 800 acres including family lands.

Reuben Cronk. Praying for lands as a settler. Recommended for 200 acres.

Enoch Cronk. Praying for lands as a settler. Recommended for 200 acres.

John Cronk. Praying for lands as a settler. Recommended for 200 acres.

Abraham Cronk, Junior. Praying for lands as a settler. Recommended for 200 acres.

Francis Bully. Praying for lands as a settler. Recommended for 200 acres.

David Robertson. Praying to be confirmed in a location of 200 acres, the ticket for which he has lost. Recommended for 200 acres to cover the ticket said to be lost.

Theophilus Sampson. Praying for a town lot in York. Recommended for a town lot in York on the usual conditions.

Norris Karr. Praying for lands as a military claimant. Recommended for 300 acres.

Benjamin Wilson. Praying for lands as a settler. Recommended for 600 acres including former grants.

Alexander McNabb. Praying for a town lot in York. Recommended for a town lot in York.

John Bradley. Praying for lands as a settler. Recommended for 200 acres, but not in the township of York.

Malachi Tully. Praying for lands as a settler and a town lot in York. Recommended for a town lot in York on the usual conditions, and also for 200 acres, but not in the township of York.

Mary Depew. Praying for family lands and lands as a settler. Recommended for 500 acres altogether including family lands.

James Field. Praying for a front lot in the town of York. Recommended for a lot, but not in front.

Jabé Brownson. Praying for lands as a settler. Recommended for 200 acres.

John Austin. Praying for lands as a settler. Recommended for 200 acres.

Cornelius Valleau. Praying for lands as a loyalist. Recommended for 200 acres.

Hellebrant Valleau. Praying for lands as a loyalist. Recommended for 200 acres.

Paul Marin. Praying for a town lot in York. Recommended for a town lot to be appropriated under the usual conditions.

Adjourned.

19th June, 1797. Confirmed, except the crosses. (Signed) Peter Russell.

14th June, 1797.

Council Chamber, at York.

Present: The Hon. John Elmsley, Chief Justice; Hon. Alexander Grant and Hon. AEneas Shaw.

Read the following petitions:

William Brown. Praying for lands as a settler. Recommended for 200 acres.

John White. Praying for lands as a loyalist. Recommended for 200 acres as a U.E. Loyalist.

Seth Roberts. Praying for lands as a settler. Recommended for 200 acres.

Thomas Humberstone. Praying for lands as a loyalist. Recommended for 400 acres.

John Galbreath. Praying for lands for his daughters, Mary and Nancy Galbreath. Recommended for 200 acres each, if they have attained 21 years each.

Samuel Sherwood. Praying for lands. Recommended for 1200 acres as a barrister.

Elijah Easton. Praying for lands as a settler. Recommended for 200 acres.

Frederick Linch. Praying for military and family lands. Recommended for 200 acres, and 100 in addition if he can produce a discharge.

William Row. Praying for lands as a military claimant. Recommended for 200 acres.

Simon Earhart. Praying for military and family lands and lands for two of his children who are of age. Recommended for 200 acres, and 100 more in addition if he can produce a discharge, and 200 acres each for his children if of age.

James Chambers. Praying for lands as a loyalist. Recommended for 200 acres.

Samuel Thomas. Praying for lands as a loyalist. Recommended for 200 acres.

Lewis Bisenet, in behalf of himself and his brother. Praying for lands. Recommended for 200 acres each.

Lieut. Samuel Humberstone. Praying for his military lands. Recommended for 2000 acres if not granted before in this or any other Province.

David McReady. Praying for lands for himself and four of his children as settlers. Recommended for 200 acres each to David McReady and such of his children as are of age.

Allan McDonell. Praying for lands as a reduced assistant commissary. Recommended for 1200 acres including former grants.

Abigail Mahon. Praying for lands as the daughter of Lieut. Bettys, deceased. Recommended for 200 acres.

Thomas Jones. Praying for lands as a military claimant. Recommended for 600 acres including former grants.

William Davies. Praying for lands as a loyalist. Recommended for 200 acres.

Solomon Jones. Praying to have his deceased brother, Lieut. David Jones's, military lands completed. The next of kin of Lieut. D. Jones resident in the Province recommended for 1500 acres as joint tenants.

Samuel McCrae. Praying for lands for himself and ten children as settlers. Recommended for 400 acres for himself; each of his children who are of age recommended for 200 acres.

Captain John Jones. Praying for lands for his nine children. Such of petitioner's children as are of age recommended for 600 acres each.

Alexander Campbell. Praying for lands in addition to 2000 acres which he has received as a military claimant. The Committee cannot admit the justness of this claim.

Nicholas Miller. Praying for lands in addition to 190 acres which he has received on Yonge Street. Recommended for 200 acres in addition as being an early settler on Yonge Street.

Asa Johnson. Praying for lands in addition to 200 acres which he has received. Recommended for 200 acres as the first settler on Yonge Street.

Isaac Smith. Praying for the broken front of lot 7 in Darlington, on which he is settled. Recommended for the broken front and 100 acres in the rear of it.

James Pitney. Praying for a town lot in York. Recommended for a town lot in York.

John McLaney. Praying for lands as a settler. Recommended for 200 acres.

Hannah Johnson. Praying for lands for her sons John and Martin Chapman. The petitioner's children recommended for 200 acres each as they come of age.

John Ledan. Praying for lands as a discharged serjeant in late Queen's Rangers. Recommended to be granted 500 acres in Tobicot.

Sarah Spencer, alias Conger. Praying for lands. Recommended for 200 acres.

Ephraim Payton. Praying for lands as a military claimant. Recommended for 300 acres.

Richard Gardiner. Praying for lands as a loyalist. Recommended for 200 acres.

David Gardiner. Praying for lands as a loyalist. Recommended for 200 acres.

Aseaneth Goldsmith. Praying for lands as a loyalist. Recommended for 200 acres.

Archibald Cameron. Praying for his military lands and a town lot in York. Recommended to be granted 500 acres in Tobicot and a town lot.

Allan McDonell. Praying for a town lot in York. Recommended for a town lot in York, not in front.

Angus McDonell. Praying for a front town lot in York. Recommended for a town lot in York on the usual conditions.

Peter Trickey. Praying for lands as a settler. Recommended for 200 acres if not granted before.

Jarvis Thayer. Praying for lands as a settler. Recommended for 200 acres.

Thomas Mosely. Praying for lands as a military claimant. Recommended for 300 acres in Tobicot when he comes to reside in that township.

Thomas Ingersoll. Praying for family lands and for 1200 acres of land as appropriee of the township of Oxford. Recommended for 1200 acres.

Edward Bean. Praying for lot 4 in the 2nd concession of Blenheim, as a settler. Recommended if the lot be vacant.

Christopher Trickey. Praying for lands as a settler. Recommended for 200 acres if not granted before.

Resolved that His Honour the President be requested to order 50 lots to be surveyed at Tobicot in addition to those laid out, to be extended towards York and to be the depth of the present survey. Reuben Sherwood.

Adjourned.

19th June, 1797. Confirmed. (Signed) Peter Russell.

15th June, 1797.

Council Chamber, at York.

Present: The Hon. John Elmsley, Chief Justice; Hon. Alexander Grant, Hon. AEneas Shaw and Hon. David William Smith.

Read the following petitions:

Jean Baptiste Bouchette. Praying for lands as Commodore on Lake Ontario. Recommended for 5000 acres including former grants.

Mrs. Mary Elmsley. Praying for a town lot in York. Recommended.

Benjamin Hallowell, Esq. Praying for a town lot in York. Recommended.

Mrs. Mary Elmsley, wife of the Chief Justice. Praying for lands. Recommended for 1200 acres.

Benjamin Hallowell, Esq., father-in-law to the Chief Justice. Praying for lands. Recommended for 1200 acres.

Andrew O'Neill. Praying for lands as a settler. Recommended for 200 acres.

James Froom, Junior. Praying for family lands and for lands in right of his wife, as a loyalist. Petitioner's wife recommended for 200 acres.

Zaré Crawford. Praying for lands as a settler. Not a year in the Province.

Nancy Fraser. Praying for lands as a loyalist. Recommended for 200 acres.

Catherine Rudeback. Praying for lands for herself and her daughter Hannah, as loyalists. Hannah is recommended for 200 acres.

Elihu Jones. Praying for lands as a settler. Recommended for 200 acres.

James Boyd. Praying for lands as a settler. Recommended for 200 acres.

William Welch. Praying for lands for himself and his wife as loyalists. Recommended for 200 acres. His wife also recommended for 200 acres.

Thomas Boyd, Junior. Praying for lands as a loyalist. Recommended for 200 acres.

Daniel McDonell. Praying for lands as a loyalist. Petitioner and wife recommended for 200 acres each. (Note: It does not appear that petitioner has a wife.)

Abraham Bolton. Praying to have his military and family lands completed. Recommended to have his military and family lands completed when the proper certificates are sent.

Martha McDonell. Praying for lands as a loyalist. Recommended for 200 acres.

Elizabeth Loucks. Praying for lands as a loyalist. Recommended for 200 acres.

Andrew McDonell. Praying for lands as a loyalist. Recommended for 200 acres.

Mary Scot. Praying for lands as a loyalist. Recommended for 200 acres.

John Petters. Praying for lands as a loyalist. Recommended for 200 acres.

Mary Cameron. Praying for lands as a loyalist. Recommended for 200 acres.

Adjourned.

19th June, 1797. Confirmed. (Signed) Peter Russell.

17th June, 1797.

Council Chamber, at York.

Present: The Hon. John Elmsley, Chief Justice; Hon. Alexander Grant, Hon. AEneas Shaw and Hon. David William Smith.

Asa Danforth and Aaron Greeley attended personally as agents to the townships of Haldimand, Hamilton, Percey and Cramahé and produced the following lists of settlers in each township.

HALDIMAND:

Patrick Moore,	Lot	4,	1st concession,	broken front.
David H. Wyatt,	“	6,	“	
William B. Curtis,	“	7,	“	broken front.
Samuel W. Persons,	“	9,	“	
George Cunningham,	“	10,	“	
George Weight,	“	12,	2nd “	broken front.
Moses Dulittle,	“	13,	“	
William Bedal,	“	22,	“	
Nathan Mitchel,	“	14,	“	
Ichabod Richmond,	“	23,	“	
Joel Burns,	“	24,	“	broken front.
Rana Perring,	“	26,	“	
Jinks Weight,	“	9,	“	
Benjamin Weight,	“	10,	“	
Isaac Weight,	“	9,	1st concession,	town.
Samuel Williams,	“	10,	“	
Rice Honeywell,	“	14,	“	
Elijah Peckham,	“	18,	“	

HALDIMAN:—*Continued.*

William Carter,	Lot	19, 1st	concession,	town.
John Carter,	“	20,	“	
John Carter, Junior,	“	17,	“	
Rozel Ferguson,	“	27,	“	
Mathias Morris,	“	12,	“	
John Darling,	“	24,	“	
Abner Spencer,	“	23,	“	
Daniel Hare,	“	22,	“	
William Stark,	“	29,	“	
Jasper Stark,	“	27, 2nd	“	broken front.
Thomas Himman,	“	30,	“	
Asa Burnham,	“	32,	“	
John Kelly,	“	35,	“	
Allen Brow,	“	22,	“	town.
William Kelly,	“	35,	“	
Joseph Philips,	“	21,	“	
Dan Alger,	“	13, 1st	“	town.
Ferdinand Grout,	“	26,	“	
Moses Hinman,	“	26, 3rd	“	
John Warrin,	“	17,	“	
Asa Brentnall,	“	18,	“	
Moses Hinman, Junior,	“	27,	“	
Timothy Silver,	“	24,	“	
Isaiah Honeywell,	“	22,	“	
Daniel Honeywell,	“	23,	“	
Charles Jones,	“	26, 4th	“	
Hercules Vaughan,	“	34, 2nd	“	

HAMILTON:

John Vaughan,	Lot	1, 1st	concession,	broken front.
Joseph Purdy,	“	3,	“	
Gilbert Purdy,	“	4,	“	
Asel Gerome,	“	7,	“	
Cornelius Benson,	“	6,	“	broken front in front.
Abner Stephens,	“	6,	“	“
Samuel Ash,	“	9,	“	
Roger Wolcott,	“	10,	“	
George Ash,	“	12,	“	
George Ash, Junior,	“	13,	“	
Stanborough P. Stancliff,	“	14,	“	
Eliud Nickerson,	“	16,	“	
Nathaniel Herriman,	Lot	17, 1st	concession.	
Frederick Perring,	“	18,	“	
Elias Jones,	“	19 and 20,	“	
John Neugen,	“	22,	“	town, broken front.
Christopher Whitney,	“	23,	“	
Billa Whitney,	“	24,	“	
Moses Hopkins,	“	26,	“	
Humphry Hagerman,	“	29,	“	
Samuel Gifford,	“	30,	“	
Peter Harris,	“	32,	“	

HAMILTON:—*Continued.*

Abraham Hagerman,	Lot	33,	1st concession.
William McKage,	“	3,	“
Joseph Harris,	“	35,	“
Daniel Tubbs,	“	9,	“
Frederick Tubbs,	“	10,	“
James Ash,	“	12,	“
John Robbins,	“	13,	“
Moses Martin,	“	18,	“
George Karr,	“	24,	“
John Harkow,	“	14,	“
Samuel Parker,	“	1,	“
Cornelius Wallis,	“	6,	“
Eli Hull,	“	7,	“
James Palmer,	“	16,	“
Stephen Tuttle,	“	17,	“
Samuel Parker, Junior,	“	1,	2nd concession.
John Town,	“	8,	“
Jacob Farman,	“	7,	“
Daniel McKeyes,	“	19,	1st “
Joel McKeyes,	“	20,	“
Noah Syrdom,	“	22,	2nd “
Thomas Caheen,	“	35,	“
Aaron Bellows,	“	23,	“
Chris. Whitney, Junior,	“	25,	“
Truman Terry,	“	26,	“
John Tuknor,	“	19,	“
Christopher Syrdom,	“	20,	“
William Pherris,	“	21,	“
Joseph Purdy, Junior,	“	28,	“
Joseph Ash,	“	31,	“
Boltus Harris,	“	32,	4th “
Joshua Hix,	“	31,	“
Philip Radix,	“	30,	“
Knoxon Harris,	“	35,	“
William Griffis,	“	33,	3rd “
John Vannato,	“	32,	“
David Farris,	“	29,	“
Asa Callender,	“	32,	2nd “

PERCEY:

Samuel Pitts,	“	24,	1st “
Samuel Danforth,	“	22,	“
John Dunn,	“	15,	“
Gardner Cleaveland,	“	18,	“
Thomas Gastin,	“	17,	“
Amasa Brunson,	“	24,	2nd “
Elias Turner,	“	20,	1st “
Daniel Silver,	“	9,	4th “
Resolved Cleaveland,	“	18,	1st “
Abner Silver,	“	14,	3rd “
John Richardson,	“	17,	“

PERCEY:—*Continued.*

Benjamin Richardson, Junior,	Lot	18, 3rd	concession.
Joseph Richardson,	“	19,	“
Roger Merril,	“	24,	“
Ezra Woodworth,	“	15,	“
Stephen Ticknor,	“	12,	“
John Devine*,	“	16,	“
Ezra Wildman,	“	18,	“
Rolluff Whitney,	“	19,	“
Barnabas Brunson,	“	23,	“
John Dickey,	“	24,	“
Elihu Lincoln,	“	12,	“
Solomon Woodworth,	“	22,	“
Rufus Wells,	“	13, 4th	“
Charles Tripp,	“	8,	“
Ezra Woodworth,	“	14,	“

CRAMAHÉ:

Captain James Richardson,	“	1, 1st	“
John Spencer,	“	2,	“
Capt. Benjamin Richardson,	“	4,	“
James Bettis,	“	6,	“
Oliver Campbell,	“	12,	“
William Campbell,	“	13,	“
John Campbell,	“	14,	“
David Turner, Junior,	“	22,	“
William Yates,	“	24,	“
Barnabas McKeyes,	“	26,	“
Aldridge Stanton,	“	27,	“
Peris Cooper,	“	29,	“
Aaron Wallice,	“	30,	“
John Ogden,	“	32,	“
John Ward,	“	33,	“
Joseph Keeler,	“	35,	“
John L. Roberts,	“	1, 2nd	“
John Beecher,	“	2,	“
Obediah Simson,	“	4,	“
Samuel Sherwood,	“	22,	“
John Turner,	“	5,	“
John Mix,	“	23,	“
Palmer Crandale,	“	29,	“
Reuben Crandale,	“	28,	“
George Palmer,	“	31,	“
Nathaniel Gaffield,	“	32,	“
John McKirman,	“	34,	“
Elisha Alger,	“	33, 3rd	“
Cyrus Richmond,	“	4, 4th	“
John Dowling,	“	31,	“
John Simson,	“	7,	“
James Dowling,	“	22,	“

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*It is thought this petitioner has received land in Kitley. See John Devine's petition, dormant file D. No. 44.

Gramahé:—*Continued.*

Walter Worden,	Lot	23, 4th	concession.
Sylvester Richmond,	"	5,	"
Timothy Olcott,	"	10, 5th	"
William Obryant,	"	19, 1st	"
William Brunson,	"	20,	"
Enoch Weight,	"	2, 4th	"
Stephen Campbell,	"	16, 1st	"
David Turner,	"	23,	"
Jeremiah Scripture,	"	9,	"

Ordered to be sent to the Surveyor General's office and an appropriation made of the lots mentioned in the lists respectively till further course be directed herein.

Read the following petitions:

Joseph Robinson. Praying for lands as a settler, and for a town lot in York. An appropriation of 200 acres allowed for a year from this date, but no town lot.

Joel Culver. Praying for lands for himself and sons as settlers. Recommended for an appropriation of 200 acres for a year from this date. The same for his eldest son.

John Edrope. Praying for lands as a military claimant. No soldier can have lands until discharged.

Thomas Goldsmith. Praying for family lands and lands in addition as a settler. Recommended for 300 acres including family lands.

Elias Jones, Junior. Praying for lots 19 and 20 in Hamilton. Recommended for the lots mentioned if vacant.

Honourable Richard Cartwright. Praying for lands for Mrs. Cartwright. Mrs. Cartwright recommended for 1200 acres.

Colin McNabb. Praying for lands for his children. To lie over till the children are of age.

Joseph Shepherd. Praying to be confirmed in his lot on Yonge Street. Recommended to be confirmed in his lot on Yonge Street.

Joseph Johnson. Praying to be confirmed in his lot on Yonge Street. Recommended for confirmation.

Thomas Johnson. Praying to be confirmed in his lot on Yonge Street. Recommended for confirmation.

Abraham Johnson. Praying to be confirmed in his lot on Yonge Street. Recommended for confirmation.

Nicholas Johnson. Praying to be confirmed in his lot on Yonge Street. Recommended for confirmation.

Lawrence Johnson. Praying to be confirmed in his lot on Yonge Street. Recommended for confirmation.

Mathew Goslee. Praying to have his military lands completed, having received a Land Board certificate for 200 acres, and requesting that lots 1 and 2 on the north side of the Carrying Place road at the head of the Bay of Quinté may be a part thereof. Recommended for leave to give up his certificate for the 200 acres already drawn and, on transmitting it to the Surveyor General's office, to have a warrant for 500 acres as a serjeant, including one lot on the Carrying Place from the Bay of Quinté.

William White. Praying for lands as a settler, and for a town lot at York.

Recommended for an appropriation of 200 acres for a year from this date, but no town lot.

John Quin. Praying for lands as a settler. Recommended for 200 acres.

Burrel Tressy. Praying for lands as a settler. Recommended for an appropriation of 200 acres for a year from this date.

Abraham Lawson, Isaac Johnson, and his son. Praying for lands as settlers. Recommended for 200 acres each, with permission to go on the Carrying Place, Bay of Quinté.

William Weed. Praying for lands as a settler. Recommended for an appropriation of 200 acres for a year from this date.

James Stevens. Praying for lot 2, 2nd concession, and lot 18, 1st concession of Hope, as a military claimant, and for lands in right of his wife as a loyalist. Recommended for one lot; the other to be appropriated for a year to give petitioner time to prove himself a guide during the war or his wife a U.E. Loyalist.

Lewis Peek. Praying for lot 32 in the front 1st concession of Hope. Recommended if not otherwise disposed of.

Adjourned.

19th June, 1797. Confirmed. (Signed) Peter Russell.

19th June, 1797.

Council Chamber, at York.

Present: The Hon. John Elmsley, Chief Justice; Hon. Alexander Grant, Hon. AEneas Shaw and Hon. David William Smith.

Read the following petitions:

George Crookshank. Praying for lands. Recommended for 1200 acres.

Reverend Edmund Burke. Praying to be permitted to locate 200 acres in the township of York in part of the lands which have been granted to him. Recommended on the usual condition of residence and improvement by himself or a sufficient tenant.

Thomas Reynolds. Praying for the 2nd concession lots behind the Nos. 4 and 5 on the north side of the River Thames at Chatham, as part of the lands granted to him by His Excellency, Lieut. Governor Simcoe. Reserved for the return of the Lieut. Governor Simcoe.

Barret Dyre. Praying for lot 6, east side of the little lake, 1st concession of Marysburg, formerly ordered to John Foster and Peter Dolt. Referred to the Acting Surveyor General to procure a report on the subject.

Richard Hatt, Senior. Praying for lands as a settler. Recommended for 1200 acres.

Richard Hatt, Junior. Praying for lands as a settler. Recommended for 1200 acres including former grants.

Samuel Hatt. Praying for lands as a settler. Recommended for 1200 acres including former grants.

Augustus Hatt. Praying for lands as a settler. Recommended for 1200 acres including former grants.

Susanna Hatt. Praying for lands as a settler. It is not usual to give lands to unmarried women.

Mary Hatt. Praying for lands as a settler. It is not usual to give lands to unmarried women.

Samuel Marther. Praying for a town lot in York. Recommended for a town lot.

Charles Innes. Praying for the lot in the rear of the one on which he is settled in Whitby. Inadmissible.

John Coon. Praying for a town lot in York. Recommended for a town lot.

John Lawson. Praying for lot 6 on the south, and No. 6 on the north sides of the Carrying Place at the head of the Bay of Quinté. Recommended for one lot on the Carrying Place.

Joseph Hendrick. Praying for a town lot in York in addition to one which he has received. Recommended a second town lot (so that the two together do not exceed one acre) having built on that first granted.

Patrick More. Praying to be confirmed in lot 4 in Haldimand, and to have his military lands completed. Recommended for confirmation in No. 4 in Haldimand and 100 acres in addition.

His Honour the President came into Council and confirmed all former proceedings and, having communicated to the Board some papers he had received from His Excellency the Commander in Chief respecting grants made to Colonel McKee, and others to the south of the military reserve of Amherstburg in the Western District, and a number of old surveying accounts for this part of the former Province of Quebec which still remain unpaid, His Honour retired. Committee resumed, members as before.

Adjourned.

Confirmed in Council, 28th June, 1797. (Signed) Peter Russell.

20th June, 1797.

Council Chamber, at York.

Present: The Hon. John Elmsley, Chief Justice, and Hon. Alexander Grant.

Read the following petitions:

David M. G. Rogers. Praying for lands in addition to 200 acres which he has received. Recommended for 1200 acres including former grants as a member of Assembly.

James Rogers. Praying for lands in addition to 200 acres which he has received. Recommended for 800 acres including former grants as the son of a field officer.

Daniel Young. Praying for additional lands as a military claimant. The petitioner has received all the land he is entitled to.

John Stinson. Praying for lands in addition to what he has received as a settler. Recommended for 1200 acres, including former grants, as a magistrate.

Richard Davenport. Praying for lands as a settler. Recommended for 200 acres.

Richard Hare. Praying for lands as a settler. Recommended for 200 acres.

Rachel Hare. Praying for lands as a loyalist. Recommended for 200 acres as a U.E. Loyalist.

Sarah Miller. Praying for lands as a loyalist. Recommended for 200 acres as a U.E. Loyalist.

Mary Johnson. Praying for lands as a loyalist. Recommended for 200 acres.

Sarah Winn. Praying for lands as a loyalist. Recommended for 200 acres.

Dorcas Young. Praying for lands as a loyalist. Recommended for 200 acres.

Rebecca Wood. Praying for lands as a loyalist. Recommended for 200 acres.

Henry Bartley. Praying for lands as a loyalist. Recommended for 200 acres.

Christopher Robinson. Praying for a town lot in York, and for lands for his wife and children. Recommended for a town lot in York. The petitioner's wife and children have already received lands.

Nehemiah Hubble. Praying for lands as a military claimant, for family lands, and for lands for his eldest son as a loyalist. Recommended for 200 acres. His son, Elijah, also recommended for 200 acres.

Margaret Shibley. Praying for lands as a loyalist. Recommended for 200 acres if of age.

Jacob Shibley. Praying for lands as a loyalist. Recommended for 200 acres as a U.E. Loyalist.

Valentine Stovers. Praying for lands as a settler. Recommended for 200 acres if none granted before.

William Dyre. Praying for lands as a loyalist. Recommended for 200 acres.

Nancy Dyre. Praying for lands as a loyalist. Recommended for 200 acres.

Catherine Dyre. Praying for lands as a loyalist. Recommended for 200 acres.

Andrew Boyce. Praying for additional lands. Recommended for 200 acres in addition to 100 acres.

Henry Young. Praying for additional lands. Recommended for 200 acres in addition to 100 acres.

William and Duncan McKenzie. Praying for lands as loyalists. Recommended for 200 acres each.

James McKim, Senior. Praying to have his military lands completed, and for lands for his sons, James and William McKim, as loyalists. Recommended for 300 acres military lands if not granted before. His two sons also recommended for 200 acres each.

Margaret Rogers. Praying for lands as a loyalist. Recommended for 800 acres as the daughter of a field officer.

Abraham Winn. Praying for lands as a settler. Recommended for 200 acres if not granted before.

Andrew Johnson. Praying for lands as a settler. Recommended for 200 acres if not granted before.

Henry Johnson. Praying for lands as a settler. Recommended for 200 acres if not granted before.

Simon J. Cole. Praying for lands as a military claimant. Recommended for 300 acres if not granted before.

Christiana Davenport. Praying for lands as a loyalist. Recommended for 200 acres.

Peter Cole. Praying for lands as a loyalist. Recommended for 300 acres including former grants.

Abraham Peterson. Praying for additional lands as a loyalist. Recommended for 300 acres including former grants.

Stephen Roblin. Praying for lands as a military claimant. Recommended for 300 acres.

John Miller. Praying for additional lands as a loyalist. Recommended for 300 acres including former grants.

Isaac Cole. Praying for lands as a loyalist. Recommended for 200 acres.

Nicholas Peterson. Praying for additional lands as a loyalist. Recommended for 300 acres including former grants.

John Wood. Praying for additional lands as a loyalist. Recommended for 300 acres including former grants.

John Bristol. Praying for lands as a settler. Recommended for 200 acres should he have been twelve months in the Province.

John Chisholm. Praying for family lands. Recommended for 250 acres.

Bosteon Hogle, in behalf of himself and his two brothers. Praying for lands as loyalists. Recommended for 600 acres as the son of a Captain. Each of his brothers recommended for 600 acres, all including former grants.

John Fraser. Praying for family lands. Recommended for 200 acres family lands.

Adjourned.

Confirmed in Council, 28th June, 1797. (Signed) Peter Russell.

22nd June, 1797.

Council Chamber, at York.

Present: The Hon. John Elmsley, Chief Justice; Hon. Alexander Grant, Hon. AEneas Shaw and Hon. David William Smith.

Read the following petitions:

Elias Smith. Praying for lands as a military claimant. The petitioner is not resident in the Province.

Adam Canuffe. Praying for lands in right of his wife as a loyalist. Recommended for 200 acres.

Gilbert Meddach. Praying for lands as a loyalist. Recommended for 200 acres.

Mary Browce. Praying for lands as a loyalist. Recommended for 200 acres.

Jacob Servos. Praying for lands as a loyalist. Recommended for 200 acres.

Jacob Shaver. Praying for lands as a loyalist. Recommended for 200 acres.

Mary Shaver. Praying for lands as a loyalist. Recommended for 200 acres.

Adam Shaver. Praying for lands as a loyalist. Recommended for 200 acres.

Elizabeth Carns. Praying for lands as a loyalist. Recommended for 200 acres.

John Boyce, Junior, Peter and Mathew Boyce. Praying for lands as loyalists. Recommended for 200 acres.

William Robinson. Praying to have his military lands completed. Recommended for 300 acres including former grants.

Mary Bolton. Praying for lands as a loyalist. Recommended for 200 acres.

Jacob Carns. Praying to have his military lands completed. Recommended for 300 acres including former grants.

Jacob Carns, Junior. Praying for lands as a loyalist. Recommended for 200 acres.

David Dorne. Praying for lands as a military claimant. Recommended for 300 acres including former grants.

Elizabeth Shaver. Praying for lands as a loyalist. Recommended for 200 acres.

Elizabeth Bowen. Praying for lands as a loyalist. Recommended for 200 acres.

John Wallaser. Praying for lands as a loyalist. Recommended for 200 acres.

Sylvester Moore. Praying for lands in right of his wife as a loyalist. The petitioner's wife recommended for 200 acres.

Joshua Losee. Praying for lands in right of his wife as a loyalist. The petitioner's wife recommended for 200 acres.

Peter Van Camp. Praying for lands in right of his wife as a loyalist. The petitioner's wife recommended for 200 acres.

Elizabeth Coon. Praying for lands as a loyalist. Recommended for 200 acres.

Mary Coon. Praying for lands as a loyalist. Recommended for 200 acres.

Nancy Ault. Praying for lands as a loyalist. Recommended for 200 acres.

Henry and Peter Shaver. Praying for lands as loyalists. Recommended or 200 acres each.

Thomas Petters. Praying for lands as a military claimant. Recommended for 400 acres including former grants.

Anthony Wallaser. Praying for lands in right of his wife as a loyalist. Petitioner's wife is recommended for 200 acres as the daughter of a U.E. Loyalist.

Martin Doleback. Praying for family lands. Recommended for 200 acres family lands if not granted before.

William Baxter. Praying for lands as a settler. Recommended for 200 acres as a settler.

Everhart Ault. Praying for family lands. Recommended for 200 acres family lands.

James Fullarton. Praying for lands in addition to 300 acres which he has received. Not recommended.

Mary Servos. Praying for lands as a loyalist. Recommended for 200 acres.

Elizabeth Shaver. Praying for lands as a loyalist. Recommended for 200 acres.

Mary Walter. Praying for lands as a loyalist. Recommended for 200 acres.

Nicholas Browce. Praying for lands as a loyalist. Recommended for 200 acres.

Catherine Albrant. Praying for lands as a loyalist. Recommended for 200 acres.

John Lamson. Praying for military and family lands. Recommended for 200 acres for himself and 400 acres as family lands.

Thomas Merlatt. Praying for lands as a loyalist. Recommended for 200 acres.

Sarah Doyle. Praying for lands as a settler. Recommended for 200 acres.

John Fraser. Praying for lands in addition to 200 acres which he has received, in consideration of his military services during the American War. It is not consistent with general rules to recommend this petition.

Simon Airheart. Praying for lands in right of his deceased brother as a military claimant. Inadmissible.

Hugh Fraser. Praying for lands as a military claimant. Recommended for 600 acres.

Catherine Lorimier. Praying that the military lands to which her deceased husband, Captain Francis Verneuille Lorimier, was entitled may be granted to her and her children. Recommended for the residue of Mr. Lorimier's military lands to be granted to his wife and children as joint tenants.

William Merrick. Praying for lots 1 and 2 in the 1st concession of the township above Oxford, and for the gore between the two townships. Recommended for 400 acres.

John Wees. Praying for lands for himself and family. Recommended for 600 acres to cover all claims including family lands.

Lucy Burley, alias Wees. Praying for lands as a loyalist. Recommended for 200 acres.

John Wees, Junior. Praying for lands as a loyalist. Recommended for 200 acres.

Catherine Rogers, alias Wees. Praying for lands as a loyalist. Recommended for 200 acres.

David Weest. Praying for lands as a loyalist. Recommended for 200 acres.

Frederick Arnold, Senior. Praying for lands for himself and family as a settler. Recommended for 900 acres including family lands.

Martha Russell. Praying for family lands, and for lands in right of her deceased husband, Rosewell Russell, a military claimant. Recommended for 200 acres family lands as surviving parent; 300 acres to be granted to her and her children as joint tenants.

John Copp. Praying for lot 18, 3rd concession of Hope, as a settler. Recommended for the lot asked for if vacant.

Peter Stoner. Praying for lot 35, 1st concession of Hope. Recommended for the lot asked for if vacant.

Daniel Churchill and William Johnson. Praying to be confirmed in the lots they occupy in Hope. Recommended for a lot each if vacant.

Alexander Chisholm. Praying for lands in right of his wife as a loyalist. Petitioner's wife recommended for 200 acres as a U.E. Loyalist.

John Cook. Praying for family lands, and lands in addition to 100 acres which he has received as a settler. Recommended for 350 acres, including family lands and former grants.

Read the following return made by Messrs. J. Walton, Abraham Walton and Elias Smith of the settlers in the township of Hope including their families:

Names	Wives	Males	Females	Total
Nathaniel Ashford	wife	3	4	9
Mynard Harris	do	4	6	12
James Stevens	do	4	2	8
Benjamin Marsh				1
William Johnston				1
Leonard Soper	wife	1	3	6
Samuel Marsh	do	1		3
Nathan Walton	do			2
Salmon Fuller	do	1		3
George Davis				1
Assa Brewer				1
John Troll	wife	1	5	8
William H. Peck	do		3	5
John Stoner	do	3	3	8
Peter Stoner	do	5	3	10
Henry Stoner	under age			1
Lewis Peck				1
John Copp				1
John Odell	wife	2	6	10
Ebenezer Wells	do	3	4	9
Seth Soper				1
Patetiah Soper	wife	1		3
Joseph Harskell				1
Nathaniel Harskell	wife	5	3	10
John Pother				1
John Low				1
Jesse Soper	wife			2
Samuel Jackson				1
Philip Pother	wife	5	6	13
David Crepper	do	8	2	12
Elias Smith, Junior				1
John Burns				1
David Scott				1

Names	Wives	Males	Females	Total
John Scram	wife	2	4	8
William S. Marsh				1
Jonathan Bedford	wife	5	3	10
Daniel Churchill				1
Ralph Vandescarr	wife	5	4	11
John Vandescarr				1
Hugh Walker	wife	2	1	5
Daniel Crippen				1
Cato, a negro				1
				187
Deduct, under age, and a negro				4
				183

To be sent to the Surveyor General's office, and an appropriation made of the lots mentioned in the lists till further course be directed herein.

Adjourned.

Confirmed in Council, 28th June, 1797. (Signed) Peter Russell.

26th June, 1797.

Council Chamber, at York.

Present: The Hon. John Elmsley, Chief Justice; Hon. Alexander Grant, Hon. AEneas Shaw and Hon. David William Smith.

Read the following petitions:

John White, Esq. Praying for a town lot in York adjoining Mr. Demont. Recommended.

Isaac Davis. Praying for a town lot in York. Recommended for a town lot in York.

Ebenezer Green. Praying for lands as a settler. Recommended for 200 acres if not granted before.

Jennet Miller. Praying for lands as a loyalist. Recommended for 200 acres as a U.E. Loyalist.

Elisha Miller. Praying for family lands. Recommended for 200 acres family lands.

Peter Welsh. Praying for lands as a settler. Recommended for 200 acres if not granted before.

Samuel Rosebush. Praying for lands as a settler. Recommended for 200 acres if not granted before.

Henry Smith. Praying for lands as a loyalist. Recommended for 200 acres if not granted before.

David Simmen. Praying for lands as a loyalist. Recommended for 200 acres as a U.E. Loyalist.

Jeremiah Covert. Praying for lands as a settler. Recommended for 200 acres if not granted before.

Jonas Lott. Praying for lands as a settler. Recommended for 200 acres if not granted before.

Andrew Lott. Praying for lands as a settler. Recommended for 200 acres if not granted before.

Solomon Harris. Praying for lands as a settler. Recommended for 200 acres if not granted before.

Alexander McDonald. Praying for lands as a loyalist. Recommended for 200 acres if not granted before.

John Hagerman. Praying for lands as a settler. Recommended for 200 acres if not granted before.

Isaac Hagerman. Praying for lands as a settler. Recommended for 200 acres if not granted before.

Peter Huffman. Praying for lands as a settler. Recommended for 200 acres if not granted before.

George Smith. Praying for lands as a settler. Recommended for 200 acres if not granted before.

William McDonald. Praying for lands as a loyalist. Recommended for 200 acres if not granted before.

Ralph Ostrum. Praying for lot 27 in the township of Sidney, formerly granted to one Jones who has not improved it. Ordered that notice be given from the Surveyor General's office to Jones to show cause, if any he has, why the lot in question should not be escheated, before any further course be had therein.

Anthony Ostrum. Praying for lands as a settler. Recommended for 200 acres.

Anthony Ostrum. Praying that a deed may issue in his name for lot 37, 6th concession of Sidney, which he purchased from one Francis Keene. Recommended that the deed for a moiety of No. 37 in Sidney issue to the petitioner.

Daniel Ostrum. Praying for land as a settler. The petitioner is not of age.

David Wees. Praying for ands as a loyalist. Recommended for 200 acres.

Hiram Kendrick. Praying for a town lot in York in addition to one already received. Recommended for another lot, so that together he has not more than one acre.

John Kendrick. Praying for a town lot in York in addition to one already received. Recommended for another lot, so that together he has not more than one acre.

John Wilson, Junior. Praying for lands as a military claimant. Recommended for 600 acres including former grants.

[The Chief Justice left the Council, and the Hon. Alexander Grant took the Chair.]

Duke William, John, Hiram, and Joseph Kendrick. Praying for lands in addition to what they have received. Recommended for 200 acres each, their pretensions to more must wait His Excellency's return.

Henry Smith. Praying for 600 acres of land which His Excellency Lieut. Governor Simcoe promised him, and to be confirmed in the broken fronts on which he now resides in Whitby. The Committee recommend this petition to lie over till His Excellency's return, so far as regards the quantum prayed for, unless the petitioner builds a mill before that takes place, in which case he may bring forward his pretensions again. He is recommended to be confirmed in his broken front if he is entered in the Surveyor General's office.

John McGahan. Praying for a lot in addition to the one he occupies in Whitby. As the Committee apprehend the petitioner made choice of the lot he is on, they do not recommend an additional grant.

David Hunter. Praying for lands as a settler. Recommended for 200 acres.

John Coon. Praying for family lands. Recommended for 400 acres family lands, if he has not received more than 500 acres before.

Myndert Harris. Praying for family lands, and military lands as a serjeant, and to be confirmed in the broken front of the lot he now occupies in Hope. Recommended to be made up 500 acres, whenever he lodges a certificate of service in the Council office, to be secured at present in 200 acres. The claim to be made up 800 acres to lie over till His Excellency's return.

John Hunter. Praying for lands as a settler. Recommended for 200 acres.

Leonard Soper. Praying to be confirmed in lots 22 and 23 in the 1st concession, and No. 13 in the 4th concession of Hope for which he has been recommended by the appropriees, Messrs. Walton and Smith. Also praying for lands in right of his wife as a loyalist. This recommendation being for more than 200 acres the Committee delay coming to any decision till there is a fuller Council, but recommended that 200 acres be appropriated till his wife establishes herself as a U.E. Loyalist.

Eleazer Lockwood. Praying to be confirmed in lot 7, 1st concession of Whitby. Recommended for the lot which has been kept for him by order of His Excellency the Lieut. Governor.

John Meyers. Praying for lands as a settler. Recommended for 200 acres.

Ralph Van Decar. Praying for military lands as a subaltern and to be confirmed in lot 17 in the 2nd concession of Hope for which he has been recommended by the appropriees of the said township. This petitioner does not appear to be one of those objects whom it was intended Mr. Walton might recommend. As he acknowledges to have drawn lands in the Midland District, his claim for a subaltern's proportion cannot be admitted without further substantiation which he is permitted to look out for, and the lot in Hope may be appropriated for him in the mean time.

John C. Stookes. Praying for lands as a loyalist. Recommended for 200 acres.

Edward Stookes. Praying to have his military lands completed. Recommended to be made up 300 acres altogether.

John Fisher. Praying for lands as a settler. Recommended for 200 acres.

Paul Cruger. Produced a magistrate's recommendation for 200 acres of land in addition to former grants. The power given to the magistrates did not extend to the recommending for additional lands. This person however is not precluded from bringing forward his claim by petition and substantiating the same by the necessary proof.

Adjourned.

Confirmed in Council, 28th June, 1797. (Signed) Peter Russell.

27th June, 1797.

Council Chamber, at York.

Present: The Hon. John Elmsley, Chief Justice; Hon. James Baby, Hon. Alexander Grant, Hon. AEneas Shaw, Hon. John McGill and Hon. David William Smith.

Read the following petitions:

Nathaniel Ashford. Praying to be confirmed in lots 1, with their broken fronts, in the 1st and 2nd concessions of Hope for which he has been recommended by the appropriees of the said township. In consideration of the very peculiar circumstances of this case, recommended for 400 acres; but no attention is to be paid to any recommendation hereafter for more than 200 acres to any settler in any appropriated township.

The Committee proceeded on the business of the townships.

Adjourned.

Confirmed in Council, 28th June, 1797. (Signed) Peter Russell.

28th June, 1797.

Council Chamber, at York.

Present: His Honour Peter Russell, Esquire, President; Hon. John Elmsley, Chief Justice; Hon. James Baby, Hon. Alexander Grant, Hon. AEneas Shaw, Hon. John McGill and Hon. David William Smith.

As it appears to this Board that the same causes which have hitherto prevented Mr. Willcocks from procuring Irish settlers for the township of Whitby may probably continue for a considerable time longer, and as a longer continuance of the appropriation under such uncertainty might be injurious to the King's service, ordered that the township of Whitby be declared open from this day; but in consideration of the great expense Mr. Willcocks has been exposed to in his efforts to fulfil his engagements to Government, and in crossing the Atlantic twice in consequence of that township having been appropriated for the purpose of being filled by him with Irish settlers, it is further ordered that 1200 acres each shall be immediately located and appropriated to Mr. Willcocks' wife Phoebe, his daughters Maria, Phoebe, Junior, and Eugenia, his son Charles, and his son's wife Ann Willcocks, to be confirmed by the King's deed to each as they shall respectively come into this Province to reside but not before.

His Honour left the Council. The Board went into Committee, Mr. Chief Justice Elmsley in the Chair.

Read the following petitions:

Elias Smith. Praying for lands as a military claimant. His Honour declaring that to his knowledge the petitioner was a Captain of Artificers at New York during the late war, ordered that an appropriation of 3000 acres be made for petitioner, but no deed to issue until he is actually, and *bona fide*, settled and resident in the Province.

Hon. John Munro, member of the Legislative Council. Praying for lands for his wife and children. Harry, John, William, Cornelia, Christiana, Charlotte and Mary Munro are each recommended for 1200 acres, including former grants.

Ensign McGill, Queen's Rangers. Praying for a town lot in York. Recommended for a back town lot in York.

Charlotte Faries. Praying for lands in addition to 200 acres which she has received as a loyalist. Recommended for 800 acres as the child of a field officer including former grants.

Sarah Kendrick. Praying for lands as a descendant of the late Admiral Rodney. Recommended for 200 acres if not granted before.

Jacob Phillips. Praying for lands in right of his deceased father as a military claimant. Recommended that 300 acres be granted to the next of kin of Nicholas Philips.

Ralph Ostrum. Praying for family lands. Recommended for 450 acres family lands if not granted before.

John Rocke. Praying for a town lot in York. Recommended for a back town lot in York.

Levy Barnum. Praying for lands as a military claimant. An appropriation recommended for 500 acres as a discharged serjeant for a twelve-month from this date or until he has brought his wife and children into the Province.

John Bissell. Praying for a town lot in York. Recommended for a back town lot in York.

Asa Brewer, Daniel Crippen and George Davis. Praying to be confirmed in the lots they possess in the township of Hope. Recommended for confirmation in their respective lots of 200 acres each.

John Stoner. Praying to have his military and family lands completed. Recommended for 300 acres military, 250 acres family lands (including No. 26, 1st concession of Hope) if not granted before.

Philip Pother. Praying to be confirmed in lot 6 in the 3rd concession of Hope, and to have his military and family lands completed. Recommended for 300 acres as a soldier, and 400 acres more for family lands—700 acres in the township of Hope.

John Small, Esq. Praying that the grant of lands to his sons may be made up 1200 acres. The Committee is sorry that it cannot extend to the children of the petitioner the only distinction in its power to confer on the children of the members of the Honourable Executive and Legislative Councils and the Honourable the Judges.*

William Peeck. Praying to be confirmed in lot 27, with its broken front, in the township of Hope. Recommended for confirmation in lot 27 in the first concession of Hope.

Alexander Gallaway. Praying for lands as a settler. Recommended for 200 acres.

Mathias Marsh. Praying for the broken fronts of the lots 34 and 35 in the township of Murray. Broken fronts may be added if not exceeding 50 acres.

Adjourned.

Confirmed in Council, 3rd July, 1797. (Signed) Peter Russell.

30th June, 1797.

Council Chamber, at York.

Present: The Hon. John Elmsley, Chief Justice; Hon. AEneas Shaw and Hon. David William Smith.

Read the following petitions:

Polly Cross. Praying for lands as a loyalist. Recommended for 200 acres.

Polly Reynolds. Praying for lands as a loyalist. Recommended for 200 acres.

Jenny Gold. Praying for lands as a loyalist. Recommended for 200 acres.

Ann Umphry. Praying for lands as a loyalist. Recommended for 200 acres.

Betsy Van Sickle. Praying for lands as a loyalist. Recommended for 200 acres.

Adiel Sherwood. Praying for lots 13 and 14 in the 5th concession of Bastard, as a loyalist. Recommended for 400 acres.

John Baker. Praying for lands as a military claimant. Recommended for 300 acres.

Alexander Campbell. Praying to have his military lands completed. Recommended that this petitioner's lands be made up to 3000 acres as a Captain's proportion.

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*Revised 6th December, 1798, Land Book D, page 238.

Annah Sherwood. Praying for lands as a loyalist. Recommended for 200 acres.

Hon. Richard Duncan, member of the Legislative Council. Praying for lands for his wife, children, and his mother-in-law, Mrs. Wright. The wife and children of the Hon. Richard Duncan are recommended for 1200 acres each.

Joseph Hunt. Praying for a town lot in York. Recommended to be granted a town lot in York.

Samuel Adams. Praying for family lands, and lands as a military claimant. Recommended for 3000 acres having satisfied the Committee that he served as a Captain under General Burgoyne.

Adjourned.

Confirmed in Council, 3rd July, 1797. (Signed) Peter Russell.

APPENDIX

REGULATION OF LAND FEES

The Governor and Council being desirous of lessening the amount of the half fees chargeable to Government:

Resolved: That instructions be given to the Attorney General to include in one fiat all the lands granted to any person whatsoever (as far as may be practicable) who shall claim an exemption from the payment of fees unless requested by the parties to have two or more deeds for different portions of their lands, in which case the half fee to be charged on that for the largest quantity, and the party that makes the request to pay the full fees for the others, and

Whereas by His Majesty's Instructions it is directed that the lands apportioned to the loyalists should be granted free of all expense, and it having been represented that in other colonies when lands have been granted, it has been customary for the several officers who are entitled to claim fees to receive half fees upon making out the grants to the loyalists, which half fees have been discharged and carried to the contingent expense of the Province.

Resolved: That no fee on any grant shall exceed a moiety of the amount directed to be paid on grants of 1200 acres. A true copy. J. Small, C.E.C.
July, 1796.

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OF THE

Department of Highways

ONTARIO

1928 and 1929

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TO HIS HONOUR WILLIAM DONALD ROSS,
Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOUR,

I herewith beg to present for your consideration the Report of the Department of Highways, relating to Highway Improvement in the Province of Ontario during the years 1928 and 1929.

Respectfully submitted,

GEO. S. HENRY,
Minister of Highways.

Department of Highways,
Toronto, March 3rd, 1931.

To The Honourable Geo. S. Henry,
Minister of Highways,
Ontario.

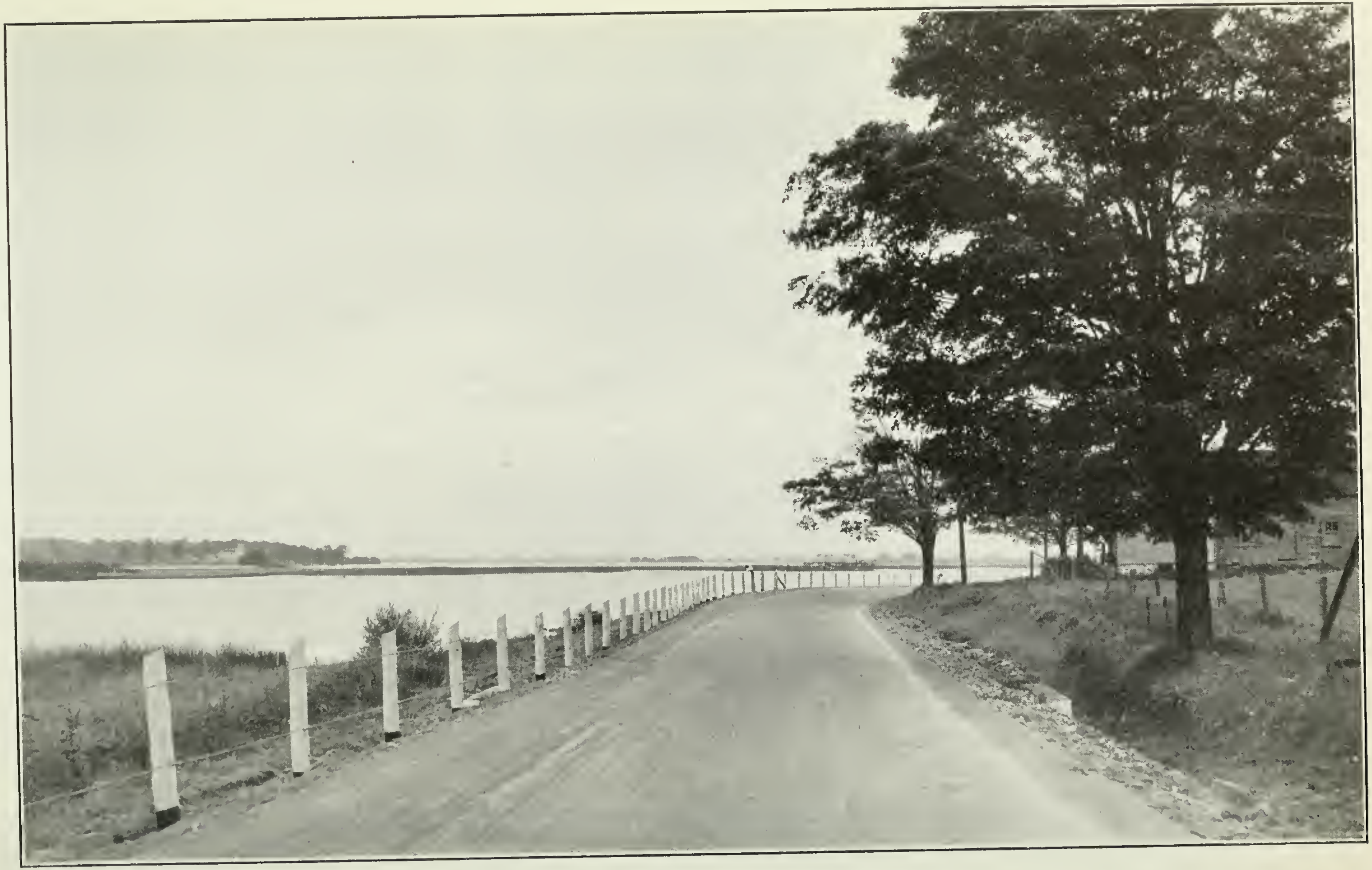
Sir,—I have the honour to submit the Report of the Department of Highways for the years 1928 and 1929, having special reference to works on the Provincial Highway System; work carried on by the several counties of Ontario, and by township councils.

Reference is also made to the operation of The Highway Traffic Act; and to other services within the purview of the Department of Highways.

I have the honour to be, Sir,

Yours respectfully,
R. M. Smith,
Deputy Minister of Highways.

Parliament Buildings, Toronto, March 2nd, 1931.



Highway No. 2. Mixed Macadam. East of Summerstown.

Ontario and Its Highways

Report of R. M. Smith, Deputy Minister

With each succeeding year, one is just that much more impressed with the importance of our highways. Transportation problems change almost over night. With the bus replacing the electric line, and the truck rapidly cutting into the local freight movement, conditions have developed that could hardly have been foreseen by the most far-sighted road builder. The principles of good highway engineering and a sound highway policy must of necessity apply in the work we have in hand. Conditions will vary and what might be accepted as very necessary in an industrial area, such as applies in the middle west of this Province, would not obtain in by far the greater part of the outlying sections.

Ontario is still in its infancy from a highway point of view. Fortunately for the highway engineer, it is still sparsely settled and even more fortunately from the road builder's point of view in the early days an effort was made to keep the highways fairly straight. Provision was also made for a decent width of right-of-way, generally all surveys, even those of a very early date, requiring 66 feet.

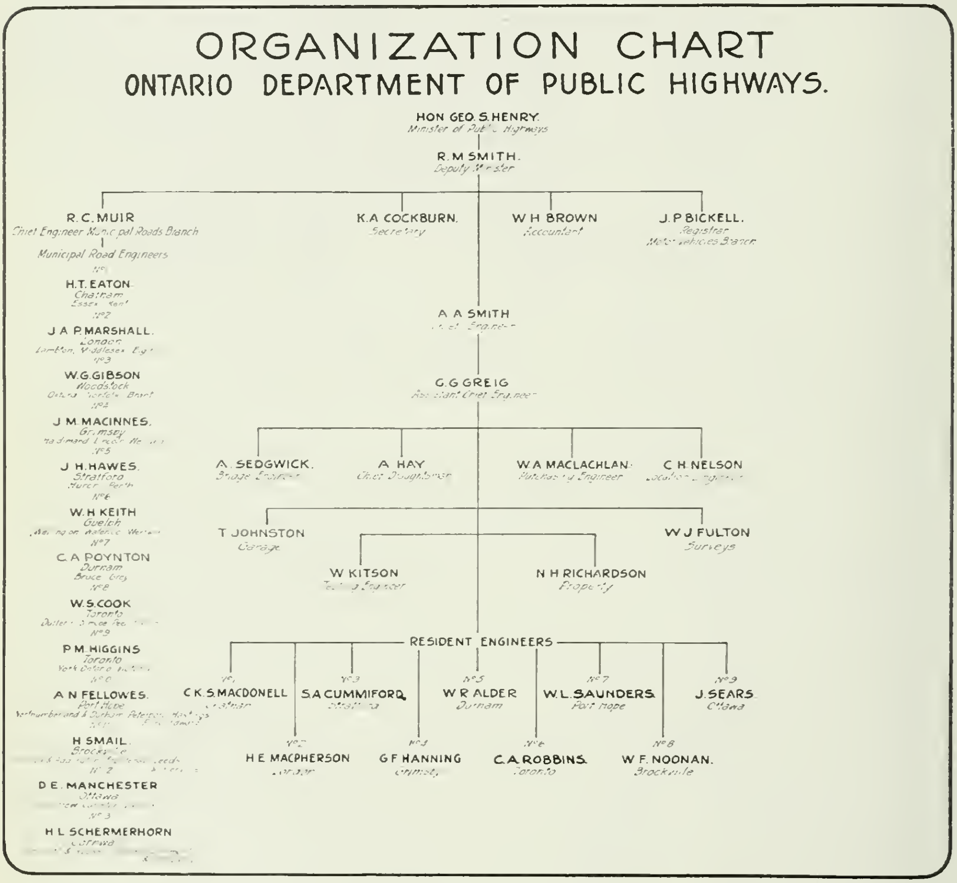
Alignment of our highways is possibly the most important factor with which we have to deal. The engineer must have vision; he must see the future development as a picture before him; he must have imagination. Unfortunately for him, however, it is sometimes very difficult or next to impossible to get officials or executives higher up to see the picture that he paints or to follow his image, and so he is obliged to adopt the second best, falling back on the old line that it is "a big improvement over the old conditions." How often we satisfy ourselves with the next best thing, almost invariably regretting our lack of aggressiveness after the work is completed. Time after time so-called improvements have been made in our road location, the alignment at the time appearing to give entire satisaction. To-day these same locations would be considered very poor engineering. For instance, in our early construction we permitted a 300-foot radius curve at a right-angled turn. To-day nothing less than 500 feet would be allowed and preferably a 700-foot to a 1,000-foot radius should be used.

We also allowed that it was acceptable engineering for our roads to meander about the country, going miles out of the line of direct routes to serve small hamlets. The cost of construction of these extra miles in some cases would exceed the value of the property served.

Too often outside influences are allowed to play a part in this highway alignment. Pressure is brought to bear to have the road go here, there or elsewhere; sometimes only to serve selfish ends. Above all things, no influence should warp our judgment in this extremely important item of highway building. The closest study is warranted and engineers should be given a free hand as far as possible.

The purchase of an entirely new right-of-way is now common practice. Engineers and officials are beginning to appreciate the comparatively low value even of a fair road on poor alignment. It is common practice in many of the surrounding States to entirely relocate their trunk highways; and in the case of reconstruction to go for miles without touching the old road. One cannot conceive the tremendous loss of this originally poorly aligned highway. What an enormous saving in road materials had the new surfaces been laid on these well consolidated bases!

Vast sums are being expended by the State of New York at this time, not only in improving the alignment, but in a second step, that of rerouting their highways, often with the definite intention of avoiding towns or villages and even cities where traffic concentration is becoming a serious matter. The old cry, "Give us highways through our main streets," is being replaced by the request that this traffic be taken elsewhere. England at the present time is largely interested in the development of what are known as "By-pass" roads; roads that skirt the city or town allowing traffic to get from place to place much more quickly. Even quaint old England with her many tortuous roads realizes that the motor car is becoming an important factor in transportation.



Then in the study of alignment, particularly in Canada where the railroads preceded highway development, the rerouting to avoid railway level crossings is worthy of consideration. Several miles of road can be built at the cost of one subway or overhead. The diversion of the highway from one crossing to another, avoiding two level crossings, is not a particularly expensive method to consider.

Alignment is the only definite and final thing about a highway. Bridges fail, grades settle or wash away, the surface deteriorates and requires replacement, but the alignment is always there. This question of direction is receiving our closest study. We expect to err on the side of extravagance rather than weakness. In our construction we have endeavoured to use good judgment. We have made it a point, as far as possible, never to move a yard of earth or to lay a pound of stone without keeping the finished product in mind.

Grades should be established to fit the alignment we have decided on. They should not be excessive, but should permit of the easy transportation of the vehicle over the road surface the highway is expected to accommodate. We know, for instance, that truck traffic will not be great remote from industrial centres. We must not lose sight of the fact, however, that touring traffic moves at a much greater rate of speed than the freight carrier, and consequently vertical curves are just as serious and dangerous as horizontal curves. While a 7 per cent. grade is considered the maximum, we rarely build to more than 5 per cent.

Another matter that has been overlooked is the construction of the drainage structures along the road. How frequently we notice short culverts and narrow bridges, neither permitting of convenient widening. Bridges, especially the steel-truss type are possibly the worst offenders.

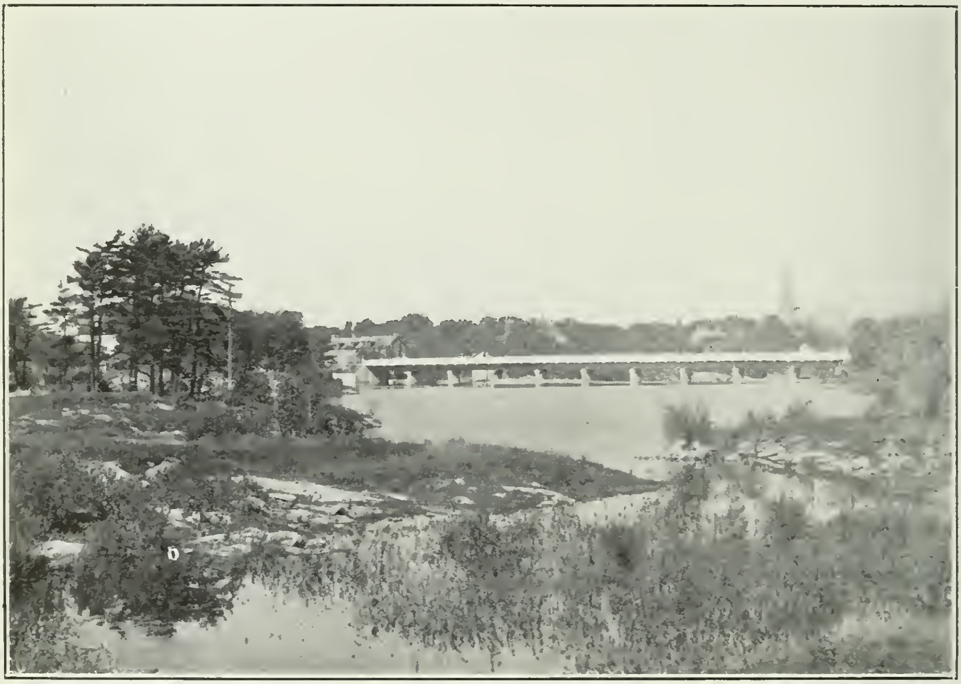
In Ontario we have in the past built our culverts to provide for a 30-foot width of grade. On new work these are now being extended to take care of considerable extra width dependant upon height of fill. So far as our bridges are concerned, we have in the past provided for a 24-foot roadway, but on our future work we will add 6 feet to these structures making them the same width as our standard grade, the small additional cost in each case being justified by increased safety.

In our grading we are widening very materially the width, particularly on high fills and curves. In the latter case, we are going even further and superelevating the grade to a very considerable degree. We have also changed the design of our ditch from 1½ to 1 slope to 2 to 1 slope, this improvement removing to some extent the deep-ditch hazzard.

The question of pavements, their type and the width we build, depends upon the traffic anticipated. Ontario lays the two well-known types, concrete and asphalt. Generally, cement concrete is laid in the industrial areas where gravels and cement materials are plentiful, and asphalt in locations where stone is easily obtained. Either pavement has its merits and we would be hesitant about making a decision without careful study of all conditions that apply.

It is frequently necessary to consider the building of secondary roads, or the laying of a surface that will serve until such time as something more permanent is required. The necessity for construction of this kind still applies and will continue to do so for many years. The grade may be surfaced with gravel, fine broken stone, or it may be waterbound macadam, bituminous penetration, or even a higher type. All are being so treated or constructed that they will not be lost as further development occurs. Bituminous-treated gravels have made excellent bases on which to build higher types. Crushed stone properly manipulated and surfaced with bitumen provides a very excellent road. Many miles have been built of this type, commonly known as retread. The 10-foot concrete strip placed on one side of the road has much to recommend it. Another alternative is the 3-inch asphaltic surface known in Ontario as mixed macadam or black base. These types of surfaces come within the secondary roads classification. They are a live issue, particularly in county and township work in this Province, and I feel they are worthy of attention particularly in sections where we are just bordering on the permanent pavement stage.

The "strength" of a road is its ability to withstand traffic. The width of metal that should be used and the type of surface that must be built depends entirely upon the traffic that will pass over the road. So many problems have presented themselves to our engineers in making a decision—the class of soil, the nature of the subgrade, the length of time the road has been graded, the metal already on the surface, the proximity to industrial areas, the question of detour. Ontario in the early days of our construction completed many miles of grading. To get traffic over this grade, a waterbound macadam base was built and some of this base is still in existence. Where this condition applies, we are covering with "black base" or what is also known as asphaltic-mixed macadam. This additional surface is laid on a tonnage basis, the depth of surface being decided upon the conditions that apply as mentioned before. Generally, however, where a fair macadam base existed, we find that six inches in depth is sufficient. If time and traffic indicate that the road needs further strengthening, additional material can always be applied.



Bridge over Madawaska River, Arnprior, on Highway No. 17.

While macadam was used extensively in the early days, it was not always used and many miles of new grade received gravel. Where this applies we find it cheaper to build concrete. We presume no pavement is more universally used where permanent surfaces are required. It can be built comparatively cheaply, has a long life, provides a comfortable riding surface and frequently can be built with local materials suitably treated.

We are still building our pavements 20 feet wide, divided into two 10-foot strips 10 inches in depth at the side and 7 inches at the centre. No transverse joint is used, the centre marking dividing the road into two traffic lanes.

While the policies of our Department have been controlled to a large extent by the funds available, we have tried to build to a plan, to build for the future, keeping in mind that a structure is just as stable as its foundation, and so our slogan has been to build from the ground up.

SUMMARY HIGHWAY EXPENDITURE AND RECEIPTS, 1928 AND 1929

Total Expenditures

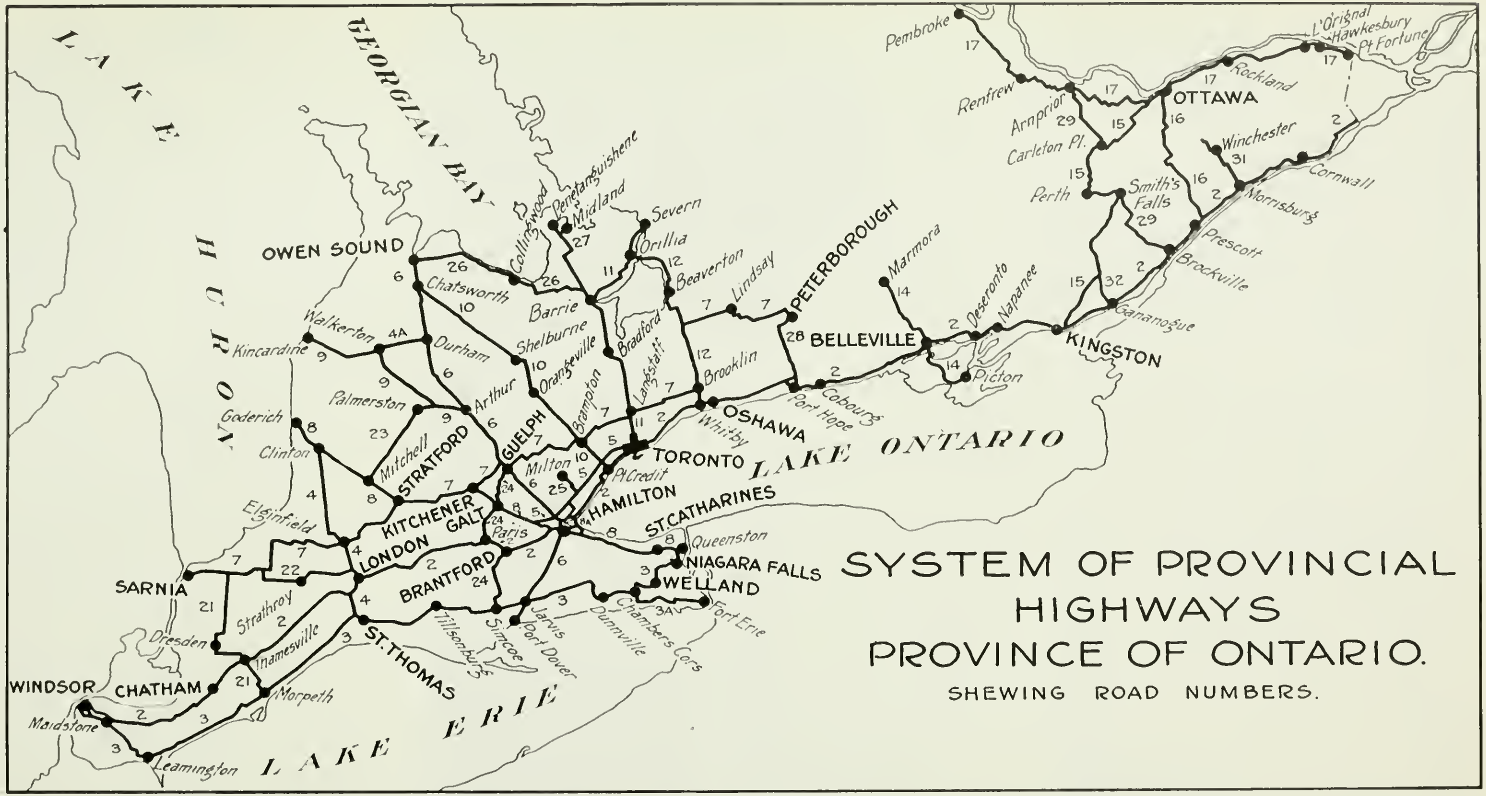
	1928	1929
Provincial Highways	$11,262,378 38	$11,487,207 06
County Roads	8,784,420 12	9,212,758 04
Township Roads	5,651,659 97	6,505,200 84
Colonization Roads	344,106 08	386,934 48
Northern Development	3,830,647 42	4,818,566 48
Public Works Bridges	123,789 70	175,164 57
Connecting Links	88,913 75	451,167 93
Overhead, Miscellaneous Grants, etc	692,475 83	702,434 47
Indian Reserve Roads	56,365 26	61,234 96
	$30,834,756 51	$33,800,668 83

Expenditures by Municipalities, Etc.

Provincial Highways Expenditure borne by Counties	$2,289,336 52	$2,280,973 36
Provincial Highways Expenditure borne by Cities and Separated Towns	358,522 09	297,982 52
County Road Expenditure borne by Counties	4,424,197 56	4,621,647 88
Township Road Expenditure borne by Townships	3,849,019 33	4,399,459 43
Connecting Links portion borne by Towns	28,022 11	221,420 29
Indian Reserve Expenditure borne by Reserves	36,177 71	37,044 73
	$10,985,275 32	$11,858,528 21

Revenue

	1928	1929
Gasoline Tax	$4,607,379 75	$8,497,593 94
Motor Vehicle Licenses	6,470,151 79	7,848,448 58
Miscellaneous Revenue	680,473 20	670,082 72
	$11,758,004 74	$17,016,125 24



SYSTEM OF PROVINCIAL HIGHWAYS
PROVINCE OF ONTARIO.
SHEWING ROAD NUMBERS.

The total mileage of the Provincial Highways System at the end of 1929 was 2,437.8, the mileage being divided as follows:

Concrete	828.39 miles	Penetration	219.39 miles
Asphalt	214.00 "	Macadam	292.30 "
Mixed Macadam	260.52 "	Gravel	623.20 "

Total . . . . 2,437.80 miles

Report on Provincial Highways

Covering Construction and Maintenance for the Years 1928 and 1929

A. A. Smith, Chief Engineer

In 1928 the Department assumed as provincial highway 61.88 miles of additional road and reverted back to the various municipalities 26.3 miles. In 1929, 24.97 miles were added to the system and 13.23 reverted. So that by the end of 1929 the Department was responsible for the upkeep of 2,438 miles of provincial highways. The following table shows the amount and various types of pavement constructed in the two years above mentioned and the total mileage to date.

Concrete pavement on Highway No. 17, east of Renfrew.

	1928	1929	Total mileage to end of 1929
Cement concrete pavement	134.5 miles	144.0 miles	828.39 miles
Asphaltic concrete pavement	3.5 "	2.0 "	214.19 "
Bituminous penetration pavement	1.5 "	......	176.40 "
Mixed macadam	85.5 "	101.09 "	260.52 "
Waterbound macadam	1.5 "	......	292.3 "
Retread surface	2.0 "	41.0 "	43.0 "
Gravel	......	85.2 "	623.2 "
			2,438.0 miles

Grading

In addition to the above-mentioned work approximately 250 miles of heavy grading was carried throughout various parts of the system. This work included the reduction of grades on steep hills to 4 and 5 per cent. grades or less, easing sharp curves to not less than 700 feet radius wherever possible, widening the subgrade to not less than 30 feet and banking of all curves. The whole of this 250 miles was covered with gravel or crushed stone and used as a temporary surface.

Bridges and Culverts

In 1928, 407 bridges and culverts were constructed and in 1929, 271 were completed. The following is a complete list of the bridges built during this period.

BRIDGES COMPLETED ON PROVINCIAL HIGHWAYS DURING 1928 AND 1929

Name	Type	Span	Completed	Road No.	Township	County
Baptiste Creek	Conc. B. & S.	53′ 7″ (2 spans)	1928	2	Tilbury E.	Kent.
Belle River	Conc. Truss	83′ 5″	1928	2	Maidstone & Rochester	Essex.
Big Creek	Conc. Truss	70′ 7″	1928	2	Tilbury W.	Essex.
Cedar Spring Overhead	Conc. B. & S.	31′ 6″	1928	3	Raleigh	Kent.
Kemptville	Conc. Truss	62′ 3″	1928	16	Oxford	Grenville.
Muskrat River	Steel Truss	80′ 0″	1928	17	Westmeath	Renfrew.
Orchardville	Conc. Truss	49′ 0″	1928	6	Egremont & Normanby	Grey.
Puslinch Overhead	Conc. B. & S.	100′ 0″ (3 spans)	1928	6	Puslinch	Wellington.
Ruscomb	Conc. Truss	70′ 7″	1928	2	Rochester	Essex.
Sandusk Creek, No. 2	Conc. Truss	49′ 0″	1928	3	Walpole	Haldimand.
Willow Creek	Conc. B. & S.	35′ 0″	1928	27	Vespra	Simcoe.
Wye River	Conc. B. & S.	32′ 6″	1928	27	Tiny & Floss	Simcoe.
Adelaide Tp. (exten.)	Conc. B. & S.	27′ 3″	1929	22	Adelaide	Middlesex.
Cobourg	Conc. Truss	62′ 3″	1929	2	E. Williams	Middlesex.
Dingman's Creek	Conc. Truss	66′ 8″	1929	2	Westminster	Middlesex.
Dodds Creek (exten.)	Conc. Arch	66′ 0″	1929	3	Southwold	Elgin.
Etobicoke Creek	Conc. B. & S.	91′ 0″ (2 spans)	1929	5	Toronto	Peel.
Harmony Crk. No. 1	Conc. Slab	Double 20′ culvert	1929	2	Whitby E.	Ontario.
Hoggs Hollow	Steel DeckTr.	1,120′ 0″ (8 spans)	1929	11	North York	York.
Hoople Creek	Conc. Truss	66′ 0″	1929	2	Osnabruck	Stormont.
Indian Crk. (exten).	Conc. Arch	45′ 4″	1929	26	Collingwood	Grey.
Kettle Creek (exten.)	Conc. Arch	165′ 0″ (3 spans)	1929	3	Southwold	Elgin.
Langstaff	Conc. B. & S.	45′ 0″	1929	7	Markham	York.
Lyon Brook, No. 2	Conc. B. & S.	43′ 0″	1929	12	Whitby W.	Ontario.
Medway Creek, No. 2	Steel Truss (main span)	119′ 4″ (1 span)	1929	22	London	Middlesex.
	Steel Beams (approaches)	15′ 6″ (1 span) 15′ 6″ (1 span)	1929			
Oakville Creek	Conc. Truss	70′ 7″	1929	25	Trafalgar	Halton.
Orchardville (exten.)	Steel Beams	22′ 3″	1929	6	Normanby	Grey.
Petrolia	Conc. Truss	100′ 0″	1929	21	Enniskillen	Lambton.
Sixteen Mile Creek (app. spans only)	Steel Beams	128′ 6″ (4 spans)	1929	2	Twn. Oakville	Halton.
Sydenham River	Steel Truss	100′ 0″	1929	22	Caradoc	Middlesex.
Wainfleet, No. 1	Conc. B. & S.	33′ 0″	1929	3 A	Wainfleet	Welland.
" No. 2	Conc. Slab	22′ 7″	1929	3A	Wainfleet	Welland.
" No. 3	Steel Beams	55′ 2″ (2 spans)	1929	3A	Wainfleet	Welland.
Watford	Conc. B. & S.	38′ 8″	1929	22	Warwick	Lambton.
Woodbridge (exten.)	Conc. B. & S.	33′ 10″	1929	7	Vaughan	York.
Shannonville subway	....	32′ 0″	1929	2	Tyendinaga	Hastings.
Webster Side Road Subway	....	56′ 0″ (2 spans)	1929	8A	Saltfleet	Wentworth.
Prescott Subway	....	41′ 7″	1929	2	Edwardsburg	Grenville.

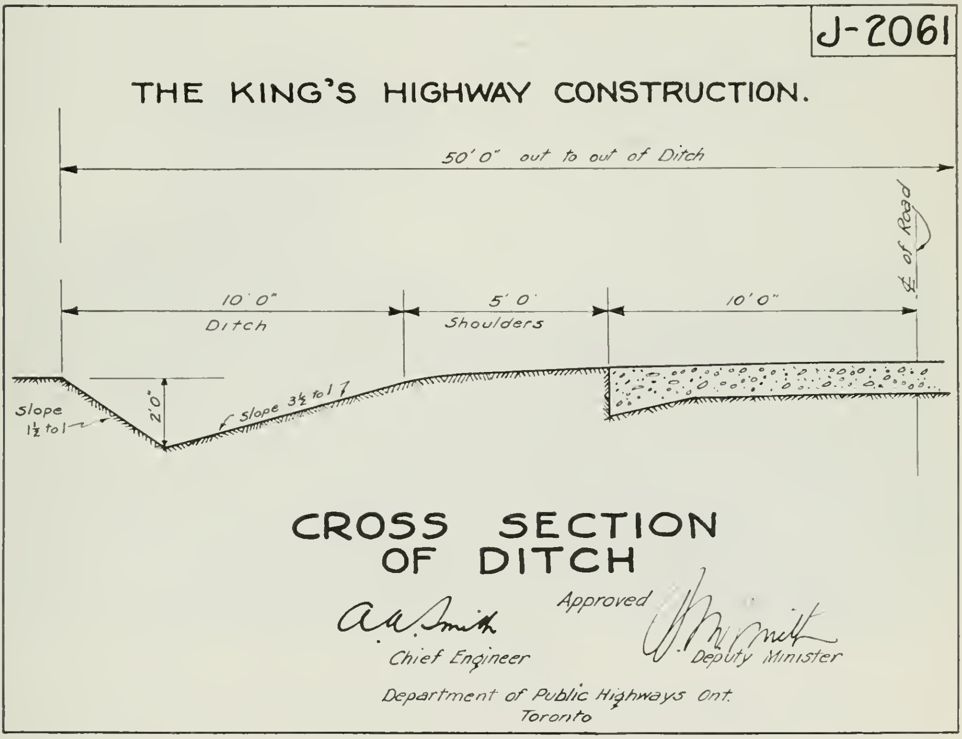
Macadam Roads

The mileage of macadam roads is gradually reduced owing to the fact that a more permanent surface is being constructed on same. The new surface applied is usually the mixed-macadam type and is built to various depths of from three to six inches.

Waterbound macadam pavements usually require a bituminous surface treatment at least every other year and consequently the Department has been compelled to treat 328.83 miles during these two years.

Gravel Roads

It will be noticed also that our gravel road surfaces are fast disappearing, due to more permanent type of pavement being constructed thereon. On the gravel roads that we have, it is becoming more necessary to treat with a dust layer material, such as oil or calcium chloride. and in the two years mentioned 395 miles were thus treated at an approximate cost of $250.00 per mile per treatment. Sometimes two treatments per year were necessary, depending entirely on the season.



Retreat Pavement

In 1928 this type of pavement was first tried out on the provincial highway west of Meaford for a distance of two miles. It consists of a broken-stone surface approximately 2½ inches in depth consolidated. The method of construction of this road is to first prime the subgrade with the required bitumen. Then the graded stone is spread on the road to a depth of 3 inches, which is given an application of bituminous binder. This is then bladed, mixed and respread by the aid of graders and drags. By this method the stone is thoroughly coated with the bitumen. Next a second application of binder is given. These two applications require three-quarters of a gallon of bitumen to the square yard. Then levelling of the stone by the grader is continued and material consolidated by the aid of a roller. After the rolling is done the surface voids are filled with ⅜-inch chips or pea gravel after which a final surface treatment of a ¼ to ⅓ of a gallon per square yard is applied and a further coating of ⅜-inch chips given which is consolidated by rolling. This type of pavement costs approximately $6,000.00 to $8,000.00 per mile for a road 20 feet in width.

Highway No. 2.

In this connection asphalt emulsions were first used on provincial highways in 1929 for surface treatment of macadam roads and construction of retread and penetration types. Our experience is yet too limited to enable us to judge as to its merits, although up to the present its success is good.

Level Railway Crossing Eliminations

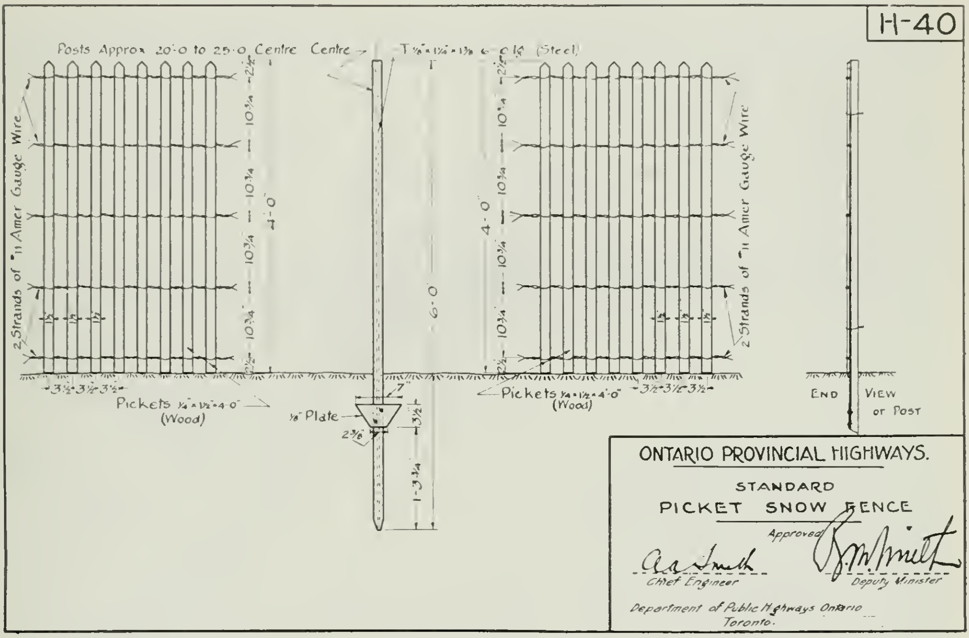
In 1928 an overhead bridge was constructed over the Chatham, Wallaceburg and Lake Erie Railway on Highway No. 3, at Cedar Springs. Also an overhead bridge was constructed at Puslinch over the Canadian Pacific Railway, eliminating a bad level crossing.

In 1929 a subway was built on the Webster Side Road under the Canadian National Railways in the Township of Saltfleet, eliminating a bad level crossing of three tracks.

In the same year a new subway was built under the Canadian National Railways at Shannonville, cutting out four most dangerous curves on the highway.

Partial Elimination of Railway Crossings on the Provincial Highways Completed 1928

Hillhead Diversion	Ops Township	2 Crossings
South March	March Township	1 Crossing
Kinburn	Fitzroy Township	2 Crossings
Elmvale	Floss Township	2 Crossings
Craigleith	Collingwood Township	2 Crossings
Camperdown	Collingwood Township	2 Crossings
Thornbury	Collingwood Township	1 Crossing
Dresden	Camden Township	2 Crossings
Queenston	Lincoln Township	


H-40
Posts Approx 20'-0 to 25'-0 Centre Centre
T 1/8" × 1 1/4" × 1 1/8" 6 ÷ C 1/2 (Steel)
2 Strands of #11 Amer Gauge Wire
2 1/2"
10 3/4"
10 3/4"
10 3/4"
10 3/4"
2 1/2"
4'-0"
6'-0"
1 1/2"
3 1/2" 3 1/2" 3 1/2"
Pickets 1/4" × 1 1/2" × 4'-0" (Wood)
7"
1/8" Plate
3 1/2"
2 5/8"
1'-3 3/4"
End View of Post
ONTARIO PROVINCIAL HIGHWAYS.
STANDARD
PICKET SNOW FENCE
Approved
Chief Engineer
Deputy Minister
Department of Public Highways Ontario
Toronto.

Mixed Macadam and Concrete Pavements

Few changes of any importance were made in either design or specification governing the construction of the above-mentioned type of pavements.

Signs

The Department has expended a considerable sum in erecting signs on the provincial highways. In these two years 5,060 symbol signs, 5,472 road signs and 2,067 stop signs were erected. Still we feel there is much to be done in this direction in order to aid the public in finding their required route and in the interests of safety. Most of the signs have to be painted every other year or replaced due to damage.

The years 1928 and 1929 have seen a great increase in the mileage of centre-line painting of highways on curves and over crests of hills. The painting we feel has been the means of greatly reducing highway traffic accidents. It consists of a white painted strip 6 inches in width, which requires to be painted at least twice a year, particularly on the sections where traffic is heavy.

Maintenance

Few changes have been made in our system of road maintenance. Except perhaps for the fact that longer beats for patrolmen are advocated wherever pavements have been laid. On these beats motor trucks are used instead of teams. The length of the beat varies from 15 to 40 miles. The Department had 261 patrol districts in 1928 and 265 in 1929. The sections were all in charge of competent men.

Snow-Clearing

As years go by the public are demanding more open roads during the winter months and it is felt that in the not far distant future all Provincial Highways will be all-year-round roads. During the winter of 1928-29 the Department kept open 1,600 miles of road at a cost of $115,974.00, and in 1929-30 1,800 miles were cleared, which cost $309,713.00.

Caterpillar Snow Plough on Highway No. 6.

The above costs include sanding of pavements. This sanding is done whenever the pavement becomes icy or slippery, particularly on hills or curves and approaches to railway crossings. It is done for reasons of safety and is approximately one-half the cost of the snow-clearing charges shown above.

Few changes have been made in the design of snow-plough equipment during the two years mentioned, except for the fact that a caterpillar tractor and special plow was tried out in a very heavy snow area north of Guelph with great success.

PROVINCIAL HIGHWAY CONSTRUCTION, 1928

During 1928 a large programme of pavement construction was carried out on the provincial highways as will be outlined below, and mention also made of the more important grading operations.

As previously mentioned the following pavement was laid during 1928:

Cement concrete	134½ miles
Asphaltic concrete	3½ "
Mixed macadam	85½ "
Bituminous penetration	3½ "

Concrete Pavement

A considerable addition was made to the mileage of concrete pavements on the provincial highway system during the past year. For about two-thirds of this construction local aggregates were used and material shipped in for the balance.

The Ontario provincial highways section, which has been standard for the last few years, was used, consisting of a slab 20 feet in width, 7 inches thick in the centre and 10 inches thick at each edge. A submerged metal centre joint was used and reinforcing was placed over culverts, new fills and soft spots. The mix employed was 1–1½–3. This is a richer mix than employed by the majority of the States to the south of us.

On No. 3 Highway, which is known as the Talbot Road and extends from Windsor via St. Thomas to Niagara Falls, concrete pavement was laid for a distance of 5½ miles west from Delhi, completing the gap between Delhi and Tillsonburg. A 10½-mile gap west of Tillsonburg was also paved. About 15 miles of concrete was laid from Wallacetown west to the Kent County line, aggregate materials for the west 8½ miles were obtained from Lake Erie and washed and screened and reassembled. The completion of these sections makes a continuous pavement from Niagara Falls to the Kent County line. On the same highway a 10-mile gap between Wheatley and Port Alma was also paved with concrete.

On Highway No. 3A, 8 miles of concrete were laid west of Port Colborne to Chambers Corners, which is the point where Highway No. 3A connects with Highway No. 3.

On the London-Sarnia Road about 5 miles of concrete were laid east of Warwick and over 5 miles between Lobo and Hickory's Corners. From St. Marys south about 6 miles were laid and over 3 miles south from Elginfield. The completion of these last two sections leaves only 7 miles unpaved (east from Elginfield) between Stratford and London.

Concrete was laid from Clinton to Seaforth and also west from Guelph a little over 5 miles. With the paving of these two sections there is only a mile gap at the Breslau crossing of the Grand River of uncompleted pavement between Guelph and Goderich. Concrete pavement was also laid at Acton, between Harriston and Clifford, at the Hamilton east entrance, between Penetang and Midland, north and south from Orangeville, and the approaches to Queenston Bridge on provincial highways north and west of Toronto.

East of Toronto 9 miles of concrete north from Manchester on the Whitby-Lindsay Road were laid, also 3 miles north from Peterborough on the Lindsay-Peterborough Road. In the vicinity of Port Hope the cut-off from Welcome to Dale was paved and 7¼ miles north from Port Hope on the Peterborough-Port Hope Road.

East of Kingston concrete was laid from Johnstown north to Spencerville, a distance of over 7 miles on the Ottawa-Prescott Road; this leaves only a section from Spencerville to Kemptville unpaved on this highway. Concrete was also laid at the Mississippi Bridge on the Ottawa-Pembroke Road.

Asphaltic Concrete and Mixed Macadam

Mixed macadam pavement was laid in two courses, each 3 inches after consolidation. The top course was sealed with medium liquid asphalt and covered with 3/8-inch stone chips. Both local stone and commercial materials were used in this type of construction. Mixed macadam can be laid without detouring traffic, which is a very important feature in certain localities. Where asphaltic concrete was laid either 5 inches of black base or a concrete base were covered with 1 inch of asphaltic concrete top.

Highway No. 17, west of Cumberland.

Asphaltic concrete was laid from Aurora south to Schomberg and also on the approaches to the Yonge Boulevard Bridge.

Mixed macadam pavement was laid on No. 3 Highway from 1½ miles east of Blenheim westerly to the concrete east of Port Alma, a distance of 11½ miles. With the completion of this section there is continuous pavement from Windsor to a point 1½ miles east from Blenheim, a distance of slightly over 70 miles. A gap of 19 miles immediately east of this work is the only unpaved section between Windsor and Niagara Falls.

On the Garrison Road east from Fort Erie mixed macadam was laid to a point 1 mile east of Port Colborne about 17½ miles, this completed the paving of Highway No. 3A.

The imporant cut-off from Clappison's Corners, which connects Dundas Street to the Galt Road, about 7½ miles long was paved with mixed macadam. This same type of pavement was laid south from Caledon Mountain for a distance of 6 miles and also a 7-mile section between Acton and Rockwood, and about a mile north from Mount Forest.

East of Toronto 5½ miles west from Lindsay on the Lindsay-Whitby Road was paved, using mixed macadam.

On No. 2 Highway (the Kingston Road) 10 miles of mixed macadam east and west from Napanee were laid. The stone used in this paving was obtained by cutting and widening the hill immediately east of Napanee. Two and one-half miles were laid east from Brockville and 3½ miles along the Canal Roads east of Cardinal, also 7 miles in the Township of Osnabruck through the Village of Aultsville.

On the Ottawa-Point Fortune Road 6½ miles were laid east from Hawkesbury; this gives a continuous pavement from Ottawa to a point 6½ miles east of Hawkesbury.

PROVINCIAL HIGHWAY CONSTRUCTION, 1929

In 1929, in addition to a very large mileage of higher types of pavement being laid, an increased maintenance programme over 1928 was carried out. Ninety miles of new grading was completed, nearly all of which was covered with crushed stone or crushed gravel which was allowed to consolidate under traffic. About 43 miles of retread were laid on various parts of the system, mostly east of Kingston. The construction programme also included fifteen new bridges, and subways at Shannonville and Webster's Side Road, a large number of culverts were constructed and others lengthened.

Pavement construction during 1929 consisted of:

Cement concrete pavement	144 miles
Asphaltic concrete (on black base)	2 "
Mixed macadam	101 "

Concrete Pavement

On No. 3 Highway running between Windsor and Niagara Falls and known as the Talbot Road, 11¾ miles of concrete pavement was laid from Kent County east limits westerly, also a new highway for crossing the Welland Canal, north of Port Colborne through the Village of Humberstone, was completed.

A very important piece of work consisted of paving two new entrances to Windsor, the southerly one of which will connect with the new Detroit-Windsor Bridge. An important gap of about 22 miles between London and Sarnia in the neighborhood of Strathroy and Waterford was completed. This will complete the pavement between Sarnia and London except for 3 miles at Masonville.

With the paving this year of 7½ miles northeast of Elginfield the whole road between London and St. Marys is now completely paved with concrete. Four miles from Elginfield to Lucan was also paved.

Concrete pavement was laid between Mildmay and Walkerton and also about 7 miles on the road south of Clinton and 6½ miles from Harriston south to Teviotdale. Two very important gaps of about 14½ miles, the one north of Orangeville and the other north of Caledon now give continuous pavement from Port Credit on Lake Ontario to a few miles north of Shelburne. About five miles of pavement was laid in the vicinity of Penetang and Midland, also eight miles of the centre section of the Barrie-Orillia Road.

The road taken over in 1928 from Nelson on Dundas Street southerly and westerly to connect with the Toronto-Hamilton Highway west of Burlington was completed as far south as Freeman before the end of 1929 construction season.

East of Toronto with the completion of 9.6 miles north of Blackwater and 7¼ miles west of Oakwood, pavement is now continuous for the whole distance between Whitby and Lindsay.

Asphaltic Concrete Pavement

Two miles of asphaltic concrete were laid on the Hamilton Highway, from Toronto city limits to Mimico, and from New Toronto to Brown's Line. In this case a pavement 20 feet in width was laid north of the existing highway and consisted of a 3-inch asphaltic concrete top on a 8-inch concrete base.

Mixed Macadam Pavement on Highway No. 2, 3 miles west of Napanee.

Mixed Macadam Pavement

Mixed macadam laid by the Department of Highways is laid in two courses, each 3 inches after consolidation. About 5 per cent. of 71–80 paving asphalt is used, and the pavement is finally sealed with medium liquid asphalt, covered with a coating of ⅜-inch stone chips. Local stone, local gravel and commercial stone and gravel were all used in the type of construction. A very important factor in the employment of this type of pavement is the fact that it can be laid under traffic and this does away with detours.

Mixed macadam was laid on No. 3 Highway for a distance of seven miles from 1½ miles east of Blenheim easterly, also a seven-mile section of waterbound macadam between Dunnville and Canboro was topped with this type. The completion of the section east of Blenheim gives continuous pavement from Windsor to Niagara Falls on No. 3 Highway.

Over nine miles of pavement from Binkley's Subway up the Ancaster Mountain was resurfaced with mixed macadam. Fifteen miles of mixed macadam was laid between Arthur and Mount Forest, also sections east of Owen Sound and between Concord and Woodbridge.

East of Toronto mixed macadam was laid between Bewdley and Fraserville, 8½ miles. The paving of this gap completed the pavement between Peterborough and Port Hope. About six miles east and west of Deseronto the existing waterbound macadam was topped with mixed macadam. East of Kingston a ten-mile section between Stittsville and Ashton was completed, also a section north from Perth. West from Cornwall mixed macadam was laid for 11 miles on existing waterbound macadam, and on the Ottawa-Prescott, nearly 12 miles of mixed macadam was laid between Spencerville and Kemptville which completed the pavement on this highway.

Report on Bridges Completed on the Provincial Highways

Arthur Sedgwick, Bridge Engineer

Considerable more bridge work was carried out and completed during the years 1928 and 1929 than for some years past.

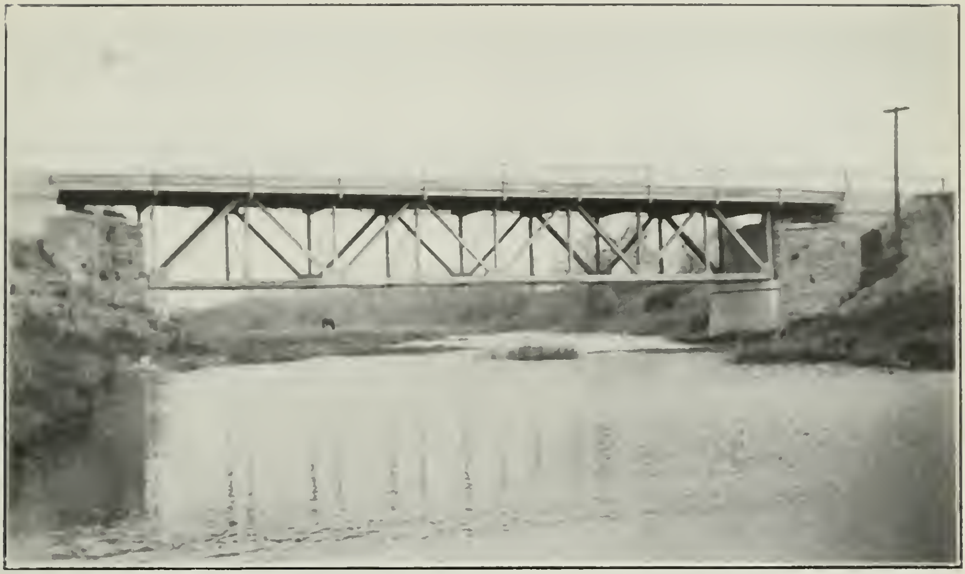
The Hogg's Hollow Bridge was opened for traffic in the fall of 1928 and fully completed soon after. This is a high level bridge spanning the Don River on Yonge Boulevard and overcomes the long steep inclines to the Don River on Yonge Street. The bridge consists of eight steel spans of 136 feet each with a roadway fifty-four feet wide between curbs and two six-foot sidewalks. The bridge was designed to carry a future double track electric railway. The total length of the bridge is 1,124 feet with a maximum height of 128 feet above the river and was constructed at a total cost of $715,000.

Hogg's Hollow Bridge near Toronto.

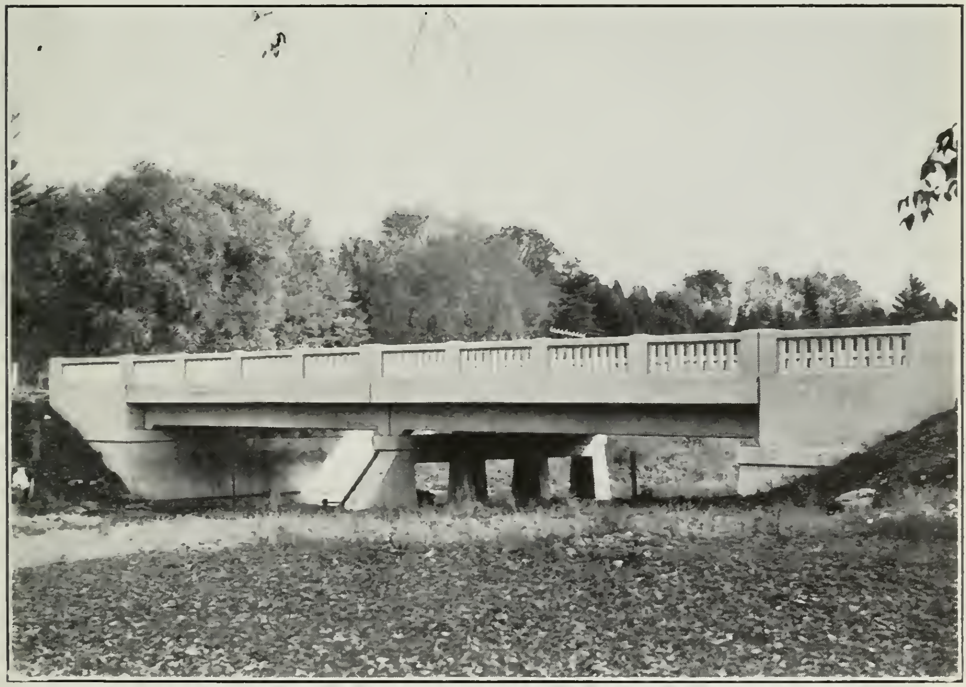
The bridge on No. 2 Highway at Oakville was lengthened at each end a distance of sixty-five feet. This work was required to relieve the pressure of the earth approaches on the bridge piers. When the bridge was first constructed the raising and widening of the earth approaches created an unstable condition in the soft underlying soil which it was found necessary to later relieve. The construction of these approach spans permitted the removal of the earth approaches which were slowly creeping towards the river. This work was commenced late in 1928 and completed early in the spring of 1929.

A level crossing over the Canadian Pacific Railway at Puslinch on Highway No. 6 was eliminated by the construction of an overhead bridge. This work was carried out in concrete beam and slab design with a twenty-four foot roadway and one six-foot sidewalk. Provision was made for an additional railway track and the total cost, including earth approaches, was $26,000.

An overhead crossing was also built over the Chatham-Wallaceburg and Lake Erie Railway at Cedar Springs on Highway No. 3 at a cost of $11,500.



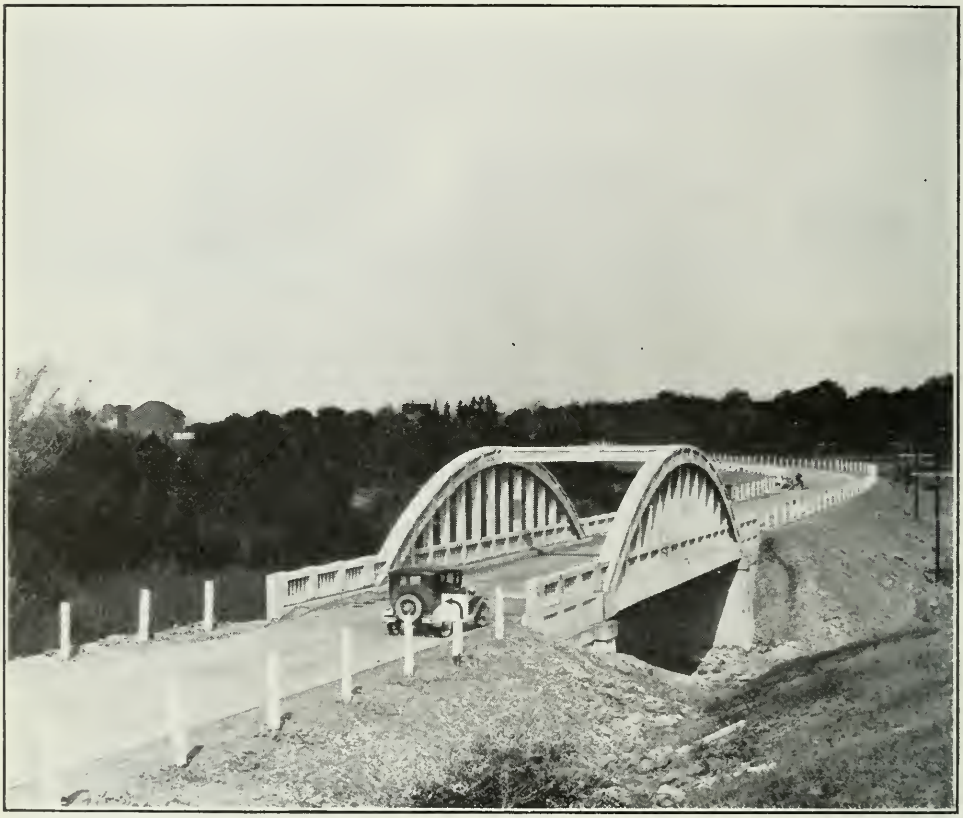
Masonville Bridge on Highway No. 22, showing abutments formerly belonging to a through-span bridge with 16-foot roadway converted for use in a new deck-span with 24-foot roadway.



Summerville Bridge over Etobicoke River on Highway No. 5.
Shows unusual and economical type of pier.

Ten other bridges were built in 1928 in various parts of the Province. With the exception of the Musk Rat River bridge in Westmeath Township on Highway No. 17, which was a steel truss bridge of 80-foot span, these bridges were designed either as concrete beam or slab or concrete bowstring arches.

In 1929 in addition to a much heavier year's programme planned for, much work was required as a result of the disastrous April floods occurring in south-western Ontario. In all, twenty-five bridges were completed and other important works commenced.



Bridge on Highway No. 21, near Petrolia.

Railway grade crossings were eliminated at Shannonville on Highway No. 2 in Tyendinaga Township; Webster Side Road on Highway No. 8A in Saltfleet Township; and at Prescott on Highway No. 2 in Edwardsburg Township.

Among the larger works completed were the Kettle Creek and Dodd's Creek arches at the western entrance to St. Thomas on Highway No. 3 which were widened to provide for a thirty-foot roadway and six-foot sidewalks.

North of Petrolia on Highway No. 21 a 100-foot span concrete bow-string arch was constructed.

At Cobourg on Highway No. 2 a sixty-foot span bow-string arch with thirty-foot roadway and two sidewalks was built to replace an old concrete beam span which was in danger of collapsing.

A two-span concrete beam bridge, ninety feet long with thirty-foot roadway and two six-foot sidewalks was built over the Etobicoke River at Summerville on Highway No. 5. A feature of this work was the building of a forty-two foot roadway with removable sidewalks. When traffic requires it, the sidewalks may be removed, leaving a clear forty-two foot roadway and new sidewalks to be built outside the present guard rails.

The bridge at Harmony on Highway No. 2 which collapsed during the spring flood was replaced by a double twenty-foot span with forty-foot roadway and two sidewalks. The small arch bridge east of Markham on Highway No. 7 which also was washed out by the same flood was replaced by a single twenty-foot span.

Kemptville Bridge, looking west.

On Highway No. 22 the old through span steel bridge over the Medway Creek was replaced by a new steel deck span. The raising of the road grade permitted making this change which was a marked improvement and at a very low cost. The old stone abutments which were in fair condition were taken down to the level of the new bridge seat and faced with new concrete to form piers for the main span of the new bridge. Short approach spans at each end permitted a low abutment and wing-walls to be built on the existing approaches. The cost for this bridge, 150 feet long, amounted to $12,000.

A 100-foot steel Warren truss span was completed over the Sydenham River east of Strathroy on Highway No. 22 in Caradoc Township.

Three concrete bridges were built in the Village of Wainfleet on Highway 3A. One of these bridges being on a sharp curve, the floor was super-elevated one foot. This is the first example of such construction on highway bridges in Ontario at least.

A list of bridges completed on Provincial Highways during 1928 and 1929 is given in the general Report on Provincial Highways.

During 1929 new designs for Standard Culverts were prepared by the Department.

In addition to the responsibility of designing and supervising the construction of the bridge work on the provincial highway system, the Department examined and approved plans for 483 bridges and culverts. This service in addition to assisting in securing safe and trustworthy structures ensures a maximum of economy in design. The average municipal engineer is a general practitioner rather than structural engineering expert. By requiring, therefore, that plans for all bridges over ten feet in span be submitted to the Provincial Bridge Engineer for approval, assistance can be given in suggesting economical designs, thereby saving appreciably large sums to the province and municipality.

Report on Municipal Roads

Report upon the work of the Municipal Roads Branch for the years 1928 and 1929

ROBERT C. MUIR, Chief Engineer of Municipal Roads.

COUNTY ROADS

Provincial aid to counties on road improvement is given through County Road Systems, under The Highway Improvement Act.

The Highway Improvement Act was initiated in 1901, when an appropriation of $1,000,000 was made by the Provincial Government with a view to aiding the construction of county roads; the Provincial subsidy being 33⅓ per cent. To-day the Province contributes 50 per cent. of the expenditure made on county roads, including construction, maintenance, machinery and superintendence expenditure.

Warrenite Bitulithic on Sutton Road between Big Flat and Crescent Beach.

Since the passing of The Highway Improvement Act, and to the end of 1929, a total of $97,362,730.32 has been expended on construction and maintenance of county roads, of which the Province has contributed $44,930,980.68. This includes the county expenditure of 1929, on which the provincial subsidy was paid in 1930.

A system of county roads has been established in each of the thirty-seven counties of the Province, although there are a few instances where only the more densely populated section of a county is included in the County Road System, such as the counties of Victoria, Peterborough, Lennox and Addington, Frontenac, and Renfrew.

At the end of 1929 the Province was paying subsidies to the counties on 8,095 miles of county roads—approximately 15.5 per cent. of the total road mileage in the area covered by the County Road System.

Approximately 95 per cent. of the road mileage under the County Road System has been surfaced with gravel, stone or other more permanent class of surfacing.

Expenditure on county roads in 1928 was as follows:—

	Total Expenditure	Provincial Subsidy
Construction		
County roads	$6,385,461 17	$3,161,098 63
Maintenance		
County roads	2,398,959 25	1,199,124 23
Total expenditure	$8,784,420 42	$4,360,222 86

The work on which the foregoing expenditure for construction was made included the following:

Grading		570.53 miles
Gravel roads	415.29 miles	
Waterbound macadam	170.60 "	
Bituminous macadam	21.66 "	
Cement concrete	29.46 "	
Asphaltic concrete	47.42 "	
Total surfaced	684.43 miles	
Bridges over 10-foot span		66
Concrete slab culverts		201
Pipe and tile culverts		1,596
Tile underdrains		55 miles

In addition, approximately 2,000 miles of stone and gravel roads were resurfaced.

Expenditure on county roads in 1929 was as follows:

	Total Expenditure	Provincial Subsidy
Construction		
County roads	$6,651,521 68	$3,310,529 60
Maintenance		
County roads	2,561,236 36	1,280,580 56
Total expenditure	$9,212,758 04	$4,591,110 16

The work on which the foregoing expenditure for construction was made included the following:

Grading		548.38 miles
Gravel	378.13 miles	
Waterbound macadam	137.87 "	
Cement concrete	43.53 "	
Bituminous macadam	33.20 "	
Asphaltic concrete	40.85 "	
Total surfaced	633.58 miles	
Bridges over 10-foot span		81
Concrete slab culverts		199
Pipe and tile culverts		1,799
Underdrains		52 miles

In addition, approximately 2,100 miles of stone and gravel roads were resurfaced.

Construction Work

Probably the most noticeable feature in county road work within the past two years over the early stages of the System has been the construction of a substantial mileage of the more permanent types of surface, such as cement concrete, asphaltic concrete and bituminous macadam. The traffic on many of the county roads has increased in volume to such an extent that the maintenance costs of gravel and stone roads reached a point where economy necessitated the laying of a surface which entailed a greater initial expenditure, but which, on account of the better service, will prove more economical over a period of years. It may be of interest to many, that prior to 1918 only 10 miles of permanent surfaces had been laid in the Province, to-day (end of 1929) we have approximately 655 miles of such surfaces on the County Road System alone.

In addition to constructing pavements, many of the counties have carried out such important work as reducing grades and widening the present grades to meet the traffic requirements of the day, also the elimination of dangerous corners and railway crossings. Bridge and culvert construction has received full consideration. Approximately 75 bridges and 200 concrete slab culverts are being built annually. It may be said at this time that the engineers of the Department are endeavouring to encourage the counties to devote more attention to the eliminating of level railway crossings and improving the vision at dangerous road intersections and thereby making our highways safer for the travelling public.

Maintenance Work

A large percentage of the expenditure on county roads is for maintenance and attention is drawn to the appendices of this report. This expenditure is essential for the protection of the investment made in previously constructed roads.

Road Accounting

A uniform system of keeping road accounts has now been established in every county and the procedure of auditing the books of the county officials and the assistance given by the Department has been favourably received and appreciated by the counties.

Urban Work

During the years 1928 and 1929, $806,838.84 and $967,489.80 respectively, were expended on county roads within the urban municipalities on which expenditure the Province refunded to the counties $887,164.32, or 50 per cent. of the expenditure. These expenditures were chiefly for the building of more permanent types of pavement. As a result of the Province's and the counties' liberal assistance, eighteen urban municipalities had permanent pavements constructed during these two years. The type of pavements laid being cement concrete, asphaltic concrete on cement concrete or macadam base.

In addition to permanent pavement construction, the existing surfaces were repaired and maintained with the aid of the rebate from the county.

Road Conference

The Fifteenth Annual Road Conference was held on the 25th and 26th of February, 1929, and was largely attended by county and township officials. The Conference is becoming more popular each year and is creating great interest among the township officials. Over three hundred were registered at this conference which was the largest meeting held since such conferences were started. The discussion following the addresses was interesting and brought out much valuable information. In addition, the county road superintendents and engineers held a one-day meeting, which took the form of a round table talk, and from the interchange of ideas it would appear to be in the interests of all concerned that such a meeting should be made an annual affair.

Kennedy Road, north of Agincourt, 18-foot Pavement, 3-inch Penetration top on Macadam base.

Several district meetings were also held during the year, arranged either by the Department or the municipalities. Such local meetings appear to create a good feeling between the municipality and the Department, and the information obtained is greatly appreciated by all those that attend.

Special Features

Among the special features of road improvement effected during the years 1928 and 1929, the following works may be mentioned.

BRANT COUNTY

In 1928, 3.2 miles of grading, 28 feet wide, was carried out and two miles surfaced with screened gravel, 18 feet in width. In 1929, 2.5 miles of road was graded 28 feet wide, and 1.5 miles of tar mulch was laid on the Burford Road.

BRUCE COUNTY

In 1928, 20 miles of road were graded, 26 to 30 feet wide, varying in length from ½ mile to 3.5 miles. This work included considerable hill cutting and the removal of approximately 10,000 cubic yards of rock. Bridge construction during the year consisted of two bridges of 20-foot span, two at 28-foot span, one at 40-foot span and one at 65-foot span. In 1929, twenty-two miles of road were graded 28 feet wide, and gravelled to a width of 22 feet. The grades of several hills were cut down under this grading operation and a "sink" hole was partially filled with approximately 20,000 cubic yards of earth. The bridge construction consisted of 5 bridges, varying in span from 14 to 42 feet, also one at 70-foot span and one at 190-foot span.

CARLETON COUNTY

In 1928, approximately 2 miles of hot mix macadam surfacing was laid on a 6-inch water bound macadam base, 18 feet wide. Approximately 4 miles of asphalt macadam (penetration) was laid 16 feet wide. One bridge, 40 feet in span, was built. The chief item of importance carried out in 1929 was the building of four bridges, varying in span from 15 to 30 feet.

DUFFERIN COUNTY

In 1928, 32.50 miles of road were graded 26 feet wide, and surfaced with gravel 12 to 18 feet in width. Three concrete bridges varying in span from 12 to 18 feet were built. In 1929, 19 miles of road were graded 26 feet wide, and surfaced with gravel 16 feet in width. Four concrete bridges, varying in span from 20 to 60 feet, were built.

ELGIN COUNTY

In 1929, 10 miles of road were graded 28 feet wide, and surfaced with gravel 16 feet in width.

ESSEX COUNTY

In 1928, 3 miles of road were graded and approximately 20 miles of new grade was surfaced with gravel 18 feet wide. Twenty miles of concrete pavement was laid 20 feet in width. In addition, four bridges were built varying in span from 35 to 90 feet. Also 135 miles of road were resurfaced with gravel. In 1929, 4 miles of road were graded to a width of 30 feet and two bridges over 50-feet in span with a 24-foot roadway were built. The pavement construction work consisted of 12 miles of cement concrete and 6 miles of hot mix macadam, 20 feet wide. In addition 75 miles of roads were resurfaced with gravel.

GREY COUNTY

In 1928, 14 miles of gravel road were constructed, varying in width from 16 to 22 feet. Three bridges of 20-foot span and 31 concrete culverts were built. In 1929, 8 miles of road were graded 28 feet wide, and gravelled 20 feet in width. Thirty-three concrete culverts were built and three bridges, 75, 85 and 120 feet in span.

HALDIMAND COUNTY

In 1928, 28 miles of road were surfaced with crushed stone, 16 feet wide, and two bridges over 20-foot in span were built. In addition, 54 miles of road were resurfaced with stone. In 1929, 3 miles of macadam road were built, 16 feet wide, and one bridge over 20-foot in span was built, also 8 concrete culverts. In addition, 110 miles of road were resurfaced with stone.

HALTON COUNTY

In 1928, 19 miles of road were graded 26 feet wide, and surfaced with gravel 16 feet wide. In 1929, 6 miles of cement concrete pavement, 10 feet wide with 4-foot gravel shoulders, were built.

HASTINGS COUNTY

In 1928, 11 miles of road were graded and surfaced with crushed stone, and four bridges over 20 feet in span were built. In 1929, 27 miles of road were resurfaced with crushed stone and five bridges over 20 feet in span were built.

KENT COUNTY

In 1928, 36 miles of road were graded 30 feet wide, and 31 miles were surfaced with gravel or stone. Ten bridges over 20 feet in span, with a 24-foot roadway, were built. The pavement construction work consisted of 5 miles of hot mix macadam and 1 mile of cement concrete 20 feet in width. In addition, 72 miles of road were resurfaced with gravel or stone. In 1929, 17 miles of road were graded 30 feet wide, and 24 miles of road were gravelled, one bridge, 45-foot span, was built and 85 miles of road were resurfaced with gravel.

LAMBTON COUNTY

In 1928, 32 miles of road were graded 28 feet wide, and surfaced with gravel 20 feet in width. In 1929, 23 miles of road were graded and nineteen miles surfaced with gravel or stone.

LEEDS AND GRENVILLE COUNTY

In 1928, two bridges over 20 feet in span were built and 0.75 miles of cement concrete pavement laid in Village of Cardinal. In 1929, one-half mile of cement concrete was laid in the Police Village of Spencerville. Thirteen miles of road were graded 28 feet wide, with necessary culverts, and gravelled 18 feet in width.

LENNOX AND ADDINGTON COUNTY

In 1928, nine miles of hot mix macadam surface were laid. In 1929, eighteen miles of hot mix macadam surface were laid and two miles of tar gravel mulch and four miles of waterbound macadam built, also grade reduction of Roblindale Hill.

LINCOLN COUNTY

In 1928, ten miles of waterbound macadam road with bituminous surface treatment were constructed and six concrete slab culverts built. In addition, fifty-three miles of road were resurfaced with stone or gravel. In 1929, one-half mile of concrete pavement was laid and ten miles of waterbound macadam road with tar surface treatment were built. In addition, forty-two miles of road were resurfaced with gravel or stone.

MIDDLESEX COUNTY

In 1928, two and one-half miles of cement concrete pavement were built 20 feet wide. In 1929, eight and one-half miles of cement concrete pavement were built 20 feet wide.

NORFOLK COUNTY

In 1928, seventeen miles of road were graded and ten and one-half miles surfaced with gravel, also three bridges over 20 feet in span were built. In 1929, nine miles of road were graded and three miles surfaced with gravel. In addition, 4 miles of road were treated with a tar gravel mulch, 18 feet wide. Four bridges, over 20 feet in span, were built.

NORTHUMBERLAND AND DURHAM COUNTY

In 1928, eight miles of road were graded 26 feet wide and gravelled. Work of laying a permanent surface was carried out in several urban municipalities. In addition, seven bridges over 20 feet in span were built. In 1929, seven miles of road were graded 26 feet wide and gravelled. The permanent paving programme consisted of 6.50 miles of concrete, fourteen miles of hot mix macadam. In addition nine bridges were built and thirty-four miles of road resurfaced.

ONTARIO COUNTY

In 1928, two and one-half miles of cement concrete pavement, 20 feet wide, were laid and 6.5 miles of grading, 28 feet wide, constructed. In addition, ten concrete slab culverts and five bridges were built. In 1929, approximately three miles of concrete pavement, 20 feet wide, were built and 6 miles of road were graded 28 feet wide. In addition, four bridges, over 20 feet in span, were built.

OXFORD COUNTY

In 1928, twelve miles of road were graded 28 feet wide and surfaced with gravel 18 feet wide. In addition, one and one-half miles of asphaltic concrete surface was laid and one bridge built. In 1929, twenty-five miles of road were graded 28 feet wide and surfaced with gravel.

PEEL COUNTY

In 1928, ten miles of road were graded 28 feet wide and gravelled. In 1929, twelve miles of road were graded 24 to 28 feet wide, and nine miles gravelled, 16 feet wide. The Cedar Mills Subway was completed as was also the Terra Cotta Bridge, 100-foot span. In addition, the Codlin's Bridge on boundary line between the counties of York and Peel was built.

PERTH COUNTY

In 1928, twenty-nine miles of road were graded 24 to 28 feet wide, and gravelled 16 feet wide. In addition, seventy-five miles of road were resurfaced with gravel and the alignment on several roads was improved by eliminating sharp corners. In 1929, thirty miles of grading, 28 feet wide, was carried out and covered with gravel 16 feet wide.

PETERBOROUGH COUNTY

In 1928, four miles of road were graded and three concrete culverts built. In 1929, six and one-half miles of road were graded 28 feet wide, and gravelled 16 feet wide.

PRESCOTT AND RUSSELL COUNTY

In 1928, approximately nine miles of water-bound macadam road were built 16 feet wide. In 1929, seven miles of road were graded and surfaced with gravel. In addition, two miles of water-bound macadam roads were built and sixty-five miles were surface treated and one 210-foot span bridge was built at St. Albert.

Lambton Bridge.

PRINCE EDWARD COUNTY

In 1928, three miles of waterbound macadam road, one mile of amiesite surface and four miles of macadam base were built 16 feet wide. In addition, eighty-five miles of road were surface treated. In 1929 four miles of hot mix macadam road, 16 feet wide, were constructed and seventy-five miles of road surface treated.

SIMCOE COUNTY

In 1928, twenty-two miles of road were graded 26 feet wide, and gravelled 18 feet wide, and two concrete bridges were built. In 1929, twelve miles of road were graded, 26 to 28 feet wide, and gravelled 20 feet wide. Six concrete bridges were built, varying in span from 12 to 40 feet. In addition, the county roads through the Towns of Alliston and Stayner and Village of Coldwater were paved.

UNITED COUNTIES OF STORMONT, DUNDAS AND GLENGARRY

In 1928, eight miles of road were graded, 26 feet wide, and six miles of waterbound macadam surface were built. In 1929, six and one-half miles of road were graded and six miles of waterbound macadam built. A tar retread surface, 4.25 miles long, was built and a forty-foot steel bridge erected.

VICTORIA COUNTY

In 1928, six miles of road were graded and gravelled and three bridges built. In addition 4.37 miles of hot-mix macadam surfacing were laid. In 1929, three and one-half miles of hot-mix macadam surface were laid and seven and one-half miles of road graded and gravelled and four bridges built.

WATERLOO COUNTY

In 1929, five and one-half miles of concrete pavement 18 feet wide, and two miles of asphaltic concrete surface 20 feet wide were laid. In addition, bridge construction consisted of one 40-foot span and one 200-foot span bridge.

WELLAND COUNTY

In 1928, eight and one-half miles of hot-mix macadam surface were laid 18 feet wide, three bridges and sixteen concrete slab culverts built. The county road through the Village of Fonthill was paved. In addition, fifty-two miles of road were surface treated. In 1929, six miles of waterbound macadam base 18 feet wide were built. In addition, three and one-half miles of hot-mix macadam surface 18 feet wide were built and thirty-five miles of road surface treated.

WELLINGTON COUNTY

In 1929, two and one-half miles of concrete pavement were built and ten miles of road graded 28 feet wide, also one mile of hot-mix macadam surface laid and nine bridges built, varying in span from 12 to 30 feet.

WENTWORTH COUNTY

The construction work in this county consisted of three and one-half miles of hot-mix macadam surface, one concrete bridge 30 feet in span, and fourteen miles of grading. In addition one and one-quarter miles of concrete pavement 10 feet wide was built.

YORK COUNTY

In 1928, the construction work in this county consisted of laying 4.75 miles of asphaltic concrete surface 20 feet wide on concrete base, ten miles of hot-mix macadam, 3.50 miles of bituminous penetration surface, eleven miles of waterbound macadam and 7.5 miles of grading 30 feet wide. In addition, six concrete slab culverts and two bridges were built. The chief feature of construction was the erection of the Lambton Bridge which consists of eleven concrete beam spans on concrete piers and abutments and having a total length of 680 feet and a 48-foot roadway. In 1929, 3.22 miles of asphaltic concrete surface on concrete base were laid, 1.30 miles of hot-mix macadam and 3.6 miles of bituminous penetration surface built together with fourteen miles of grading and gravelling.

GENERAL

The work in the remaining counties and other work of the above-named counties consisted chiefly in reshaping and maintaining the existing road, building concrete slab culverts, laying pipe culverts and otherwise preparing for future work.

COUNTY SUBURBAN ROADS

The motor car and motor truck have greatly advanced the general public value of the road, and whereas good roads were regarded a few years ago as solely of rural concern, urban centres have become keenly alive to their value and are willing to bear a fair proportion of the cost. Instead of the farming population being expected to meet the entire cost, it is now fully conceded that as regards main roads, cities and separated towns must share the burden with any other department of transportation or traffic. Cities benefit by rural trade induced by tourist traffic; by the commercial and industrial traffic between cities.

Provision is made under The Highway Improvement Act whereby a city or separated town may co-operate with the county council in improving the leading county roads adjacent to the city or separated town and thereby obtaining a more substantial type of construction for such suburban road.

The work on surburban roads is carried out under the direction of a commission, composed of three members when the city is less than 50,000 population and five members over 50,000 population.

At the end of 1929, twenty-two cities, all the cities within the organized counties, and three separated towns, Smith's Falls, Walkerville and Brockville, were paying toward the improvement of county suburban roads. The mileage of suburban roads is 718 miles, the expenditure on which at the end of 1929 amounted to $17,578,858.91, of which the cities and the said separated towns have contributed $4,666,091.75 or 4.79 per cent. of the total expenditure made on the County Road System.

Towards the expenditure on construction and maintenance and supervision of county suburban roads, the Province contributed 50 per cent., and the county and city each 25 per cent. The object of the city's contribution is not to relieve the county of the expenditure which they are equitably called upon to make, but rather to improve the standard of roads radiating from the city, and to permit them to be maintained in a condition suited to the traffic over them. Traffic accumulates on the main roads immediately adjacent to the city, and it becomes an unfair charge upon rural districts to construct and maintain roads suited to such accumulated traffic.

In 1929, the expenditure on county suburban roads was $1,763,995.12 of which the Province contributed $866,298.75 and the cities $448,848.18. In 1928, the expenditure was $2,066,540.31 and the Province's share $1,001,932.16, the cities contributing $532,304.07.

During the years 1928 and 1929, the suburban road commissions constructed approximately 100 miles of permanent surfaces.

The work on the county and county suburban roads has shown remarkable improvement during the past few years, and the counties and commissions in the majority of instances are to be commended on the method of carrying on the work.

The construction of permanent pavements on suburban roads in the close vicinity of the city should be encouraged by all suburban road commissions.

INDIAN RESERVES

Provincial aid towards road improvement in Indian Reserves is provided by Sections 34 and 46 of The Highway Improvement Act. Section 34 provides that where a road in the reserve is a connecting link of the County Road System, the Province will contribute 50 per cent. of the expenditure made on such connecting link. The purpose of this assistance is to establish uniformity of improvement throughout the County Road System, as there are cases where these roads within the reserve are used extensively by through, or foreign traffic. On other roads (Section 46) within the reserve, the Province contributes 40 per cent. on expenditure made thereon, such roads being placed in the same class as township roads.

During the year 1929, the Reserves of Cape Croker, Caradoc, Kettle and Stony Point, Sarnia, Saugeen, Six Nations and Walpole Island received Provincial aid on a 50 per cent. basis. These reserves expended $17,441.81. On a township road basis, the reserves, in 1929, expended $39,923.03. There are 10 reserves accepting aid from the Province.

The work within the reserves consists chiefly of grading and gravelling and the work in the majority of cases is to be commended.

TOWNSHIP ROADS

The township road plays a most important part in the development of this Province and the improvement of such roads must not be overlooked.

Our township roads, in the early history of the Province, depended largely on Statute Labour for improvement, this system having been created by the first Parliament of the Province (then Upper Canada) in 1796. In the old days, when traffic moved slowly on a narrow strip of gravel, Statute Labour served its purpose, but with the advent of the motor car it has become obsolete as a road builder. Statute Labour still holds in a few localities but is growing weaker. Money expenditure, raised by general levy on the township assessment, has been steadily increasing, and at the end of 1929, 337 townships had abolished Statute Labour, being approximately 92 per cent. of the townships in the organized counties.

The total approved expenditure in 1929, of the 337 townships receiving aid under The Highway Improvement Act amounted to $6,505,200.84. Subsidies amounting to $2,105,741.41 were paid, being 30 per cent. of the cost of construction, maintenance, bridges, machinery, and 50 per cent. of the cost of superintendence. Apart from the actual financial assistance, the advice and co-operation of the engineers of the Department have been of untold value to the townships and are having a marked effect upon the nature of township road improvement throughout the Province. In bridge and culvert construction, n the elimination of dangerous curves, brush obstructions, narrow fills, and like matters, the impetus towards prompt action and the advice and guidance in the matter of methods and costs have been found to be sound and worthy of adoption.

In 1928, 96 bridges and 219 concrete slab culverts were built by the townships and numerous pipe culverts laid. In 1929, 265 bridges and 364 concrete slab culverts were built. Yearly the mileage of earth roads is diminishing, gravel, stone or other more substantial surface being employed to provide the farmer with a safe and convenient road in seasons of the year when he needs it most. As in other years, work on township roads consisted chiefly of renewing worn-out surfaces and keeping them smooth by frequent dragging—that is, expenditures were largely for maintenance, narrow grades are being widened out, swampy stretches cleared and drained, and effective watercourses established along roadsides to ensure a reliable road surface in all weathers.

The main objective of every township council should be to provide the farmer with a safe and convenient road in seasons of the year when he needs it most.

The following shows the growth of provincial aid to townships on road improvements, under the provisions of The Highway Improvement Act:

1916	$1,241 71	towards superintendent's salary
1917	1,608 72	" " "
1918	1,910 59	" " "
1919	2,620 60	" " "
1920 (184 townships)	340,973 38	Commencement of aid on improvement.
1921 (294 ")	708,486 91	
1922 (312 ")	649,601 47	
1923 (315 ")	614,037 88	
1924 (320 ")	638,940 11	
1925 (272 ")	988,633 29	
1926 (295 ")	1,317,146 17	
1927 (307 ")	1,619,169 74	
1928 (324 ")	1,802,640 64	
1929 (337 ")	2,105,741 41	
	$10,792,752 62	

Standard of Work

The class or standard of work to be done on municipal roads (county and township) will be governed largely by the importance of the road. The amount of traffic using the road will decide as to the amount of expenditure and the type of construction required on the work.

Engineers of the Department

The Department's engineers have now been established within the area allotted to them for the purpose of being closer in touch with the work and for lending their services to the municipal officials to the best advantage. The Department desires to assist and co-operate to the fullest extent with the municipalities in the improvement of roads, and requests that the superintendents communicate with the district engineers of the Department before any permanent work is commenced. The engineers of the Department are at the services of the municipalities at all times in all matters pertaining to road improvement.

APPENDICES

Nos. 1 to 14

APPENDIX

DETAILS OF CONSTRUCTION—

County	Bit. Mixed Method	Culverts Built	Bridges Built	Miles of Grading	Miles of Graveling
Brant				1.0	
Bruce		2			38.2
Carleton		8		13.9	13.0
Dufferin		1			9.4
Dundas, Stormont and Glengarry	10.4			0.4	
Durham and Northumberland					
Elgin			2	0.9	1.0
Essex			3		
Frontenac					
Grey	2.1	12 and 1 exten. 17 Pipe	1 and 1 exten.	9.6	83.3
Haldimand					
Halton		14	1	7.9	7.9
Hastings					
Huron		41		6.8	22.6
Kent	11.03	8	2	4.08	35.08
Lambton		10	1	38.32	62.42
Lanark		13 and 3 exten.		13.3	13.3
Leeds and Grenville	2.5	56	1	11.2	7.8
Lennox and Addington	10.1		1 superstructure raised		
Lincoln					
Middlesex		4	3	10.5	36.9
Norfolk		1		.3	
Ontario		16		10.5	10.5
Oxford					
Peel					
Perth		27		4.5	14.1
Peterborough		7		0.4	
Prince Edward					
Renfrew		9		12.5	6.0
Russell and Prescott	7.6			7.1	
Simcoe		1		5.0	
Victoria	5.48	10 and 4 exten.		11.7	
Waterloo					
Welland	10.8	4 and 3 exten	1		4.0
Wellington			1		
Wentworth	7.44	1676 L.F. Pipe 136 exten.			
York		10	1	7.0	7.0

No. 1

PROVINCIAL HIGHWAYS, 1928

Miles W.B. 2 Course Macadam	Miles Bit. Penetration	Miles Asp. Concrete	Miles Concrete Pavement	Lin. Ft. Guard Rail	Lin. Ft. Storm Sewers	Miles Surface Treatment	Miles Gravel Road Maint.	Miles New Fence Erected
....	....	....	....	2,400	....	7.0	....	....
1.7	7.8	....	....	2,000	....	8.0	64.40	....
....	0.5	....	3.6	....	4,200 tile	10.8	20.2	1.0
....	....	....	3.9	746	....	5.9	9.40	....
....	....	....	....	15,100	....	18.8	....	1.1
....	....	....	9.0	....	....	....	4.26	....
....	....	....	....	800	6,400	....	1.40	10.4
....	....	....	....	1,600	....	3.84	....	0.19
....	....	....	....	23,900	....	14.6	....	....
....	2.1 retread	....	....	2,408	....	....	88.7	2.6
....	....	....	....	957	....	....	1.23	....
....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	17.0	21.90	....
....	....	....	17.0	....	....	....	33.10	....
....	....	....	9.6	14,400	....	9.55	35.08	6.31
....	....	....	12.65	1,200	....	....	62.42	4.64
....	....	....	....	....	2,700 tile	27.8	2.5	12.9
....	1.45 tar retread	....	7.2	35,000	....	26.0	78.90	....
....	....	....	....	....	....	11.5	....	....
....	....	....	....	1,568	....	....	....	....
....	....	....	27.95	25,000	22,000	....	52.60	12.2
....	....	....	....	4,373	....	9.7	6.77	0.6
....	....	....	8.7	....	23,760 ag. tile	....	....	....
....	....	....	....	....	2,400	....	....	....
....	....	....	....	....	....	....	....	....
....	....	....	....	....	....	....	47.60	....
....	....	....	3.0	....	....	....	3.60	....
....	....	....	....	....	....	8.75	....	....
....	1.0	....	....	400	1,960 tile	3.0	50.5	10.6
....	....	....	....	....	141,436 tile	12.5	4.7	0.9
....	....	....	....	....	....	....	....	....
....	....	....	....	7,000	....	3.31	18.67	....
....	....	....	....	....	....	....	9.90	....
....	....	....	8.1	3,317	....	....	....	....
7.1	....	....	6.0	....	....	....	29.70	1.2
....	....	....	....	6,534	100,000	8.0	....	....
....	....	3.0	....	....	....	....	....	....

APPENDIX

DETAILS OF CONSTRUCTION—

County	Bit. Mixed Method	Culverts Built	Bridges Built	Miles of Grading	Miles of Graveling
Brant				0.75	6.95
Bruce		5 and 7 exten. 4 Pipe		0.5	5.4
Carleton	10.0	8 and 2 exten.		20.2	0.9
Dufferin					2.5
Dundas, Stormont and Glengarry	10.6	33 and 2 exten.	1	0.4	0.3
Durham and Northumberland	8.5	2 and 5 Conc.	1		
Elgin					
Essex		22		3.03	
Frontenac					
Grey	4.7	14 and 32 exten.		14.3	82.9
Haldimand	7.2	1 and 76 L.F. Pipe		1.23	1.23
Halton		9		3.4	3.4
Hastings	4.1	20 Pipe	1 Subway	6.3	6.3
Huron		46		1.0	14.3
Kent	7.15	12			20.1
Lambton		22	2	9.2	51.8
Lanark	4.5	10		2.5	2.5
Leeds and Grenville	11.8	4		12.0	24.0
Lennox and Addington	1.75				
Lincoln					
Middlesex		69		22.66	33.93
Norfolk		11 and 319 L.F. Pipe		6.77	16.57
Ontario		2 and 1 Double 20	1	1.5	12.0
Oxford					
Peel		9	1		
Perth		46		29.7	32.3
Peterborough		1		3.6	3.6
Prince Edward					
Renfrew		1 and 2 exten.	2	6.0	6.5
Russell and Prescott				4.7	
Simcoe	1.0	23 and 1 exten.	1	18.6	
Victoria					
Waterloo		9		9.9	9.9
Welland			3		
Wellington	14.0	6		0.25	2.6
Wentworth	9.92				
York	7.3	1	2	7.0	7.0

No. 2

PROVINCIAL HIGHWAYS, 1929

Miles W.B. 2 Course Macadam	Miles Bit. Penetration	Miles Asp. Concrete	Miles Concrete Pavement	Lin. Ft. Guard Rail	Lin. Ft. Storm Sewers	Miles Surface Treatment	Miles Gravel Road Maint.	Miles New Fence Erected
....	....	....	....	10,500	....	....	6.95	0.4
....	....	....	11.6	560	....	13.2	58.6	....
....	....	....	10.2	2,400	100 storm sewer 11800 tile	1.0	10.0	13.0
....	....	....	7.8	330	....	....	6.4	....
....	....	....	....	3,100	2,250	36.7	....	1.3
....	....	....	....	692	....	....	1.03	....
....	....	....	7.9	15,840	....	....	....	5.55
....	....	....	10.6	16,400	....	3.84	....	16.50
....	....	....	....	1,400	....	5.0	....	....
....	2.1 retread	....	....	4,320	....	....	80.6	6.3
....	....	....	....	2,937	....	10.0	1.23	....
....	....	....	....	....	....	....	....	....
....	....	....	0.35	13,700	....	....	20.65	1.92
....	....	....	9.5	2,300	....	....	14.3	....
....	1.92 retread	....	11.7	350	....	9.55	20.1	0.25
....	3.28 retread	....	10.93	6,800	....	....	55.8	1.25
....	....	....	....	6,000	2,400 tile	....	....	5.98
....	20.8 tar retread	....	1.1	1,000	....	....	57.8	5.3
....	....	....	....	500	....	....	....	....
....	....	....	....	1,403	17,755	....	....	....
....	....	....	20.83	19,344	26,045	....	46.63	2.1
....	....	....	7.45	5,280	1,056	3.0	16.57	4.35
....	....	....	11.0	....	....	....	....	1.72
....	....	....	1.8	....	3,000	....	....	0.4
....	....	....	7.0	....	....	....	....	....
....	....	....	5.6	1,050	....	7.0	27.8	....
....	....	....	....	6,380	....	....	4.0	....
....	....	....	....	....	....	16.0	....	....
....	1.5 retread	....	6.0	7,000	20,850 tile	....	44.5	2.3
....	4.7 retread	....	....	4,000	....	....	....	....
....	....	....	15.2	....	....	....	....	0.25
....	....	....	5.05	5,000	....	....	12.2	....
....	....	....	....	....	....	....	....	....
....	....	....	4.13	3,515	....	8.8	....	....
....	....	....	13.0	2,200	....	....	....	2.6
....	....	....	....	5,917	....	....	....	....
....	1.7	2.0	....	....	....	....	....	....

APPENDIX No. 3

EXPENDITURE ON PROVINCIAL HIGHWAYS, 1928 and 1929

		Construction	Maintenance	Total Expenditure	Cost to Province	Cost to County	Cost to Separate Towns	Cost to Commissions, etc.	Cost to Cities (Sub Area)
		$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Brant	1928	59,782 81	18,917 89	78,700 70	56,202 23	15,740 14			6,758 33
	1929	39,642 86	22,670 25	62,313 11	40,663 42	12,462 62			9,187 07
Bruce	1928	64,393 37	23,493 10	87,886 47	70,309 18	17,577 29			
	1929	162,242 66	43,188 23	205,430 89	164,344 71	41,086 18			
Carlton	1928	230,684 61	52,144 02	282,828 63	217,901 25	56,565 72			8,361 66
	1929	686,289 74	58,018 10	744,307 84	587,548 45	148,861 57			7,897 82
Dufferin	1928	106,702 09	10,101 95	116,804 04	93,443 23	23,360 81			
	1929	216,820 55	11,216 82	228,037 37	182,429 90	45,607 47			
Dundas, Stormont and Glengarry	1928	337,016 85	43,086 25	380,103 10	304,082 48	76,020 62			
	1929	313,576 59	57,454 34	371,030 93	296,824 75	74,206 18			
Durham and Northumberland	1928	245,134 26	56,027 92	301,162 18	240,929 75	60,232 43			
	1929	259,271 65	56,214 83	315,486 48	252,389 19	63,097 29			
Elgin	1928	695,018 14	26,240 96	721,259 10	575,211 68	144,251 82			1,795 60
	1929	68,344 83	26,606 54	94,951 37	63,871 34	18,990 27			12,089 76
Essex	1928	54,282 43	21,106 07	75,388 50	59,380 30	15,077 70			930 50
	1929	338,846 78	21,660 27	360,507 05	287,216 78	72,101 41			1,188 86
Frontenac	1928	6,734 17	32,409 50	39,143 67	29,516 77	7,828 73			1,798 17
	1929	4,489 99	19,147 34	23,637 33	16,597 44	4,727 46			2,312 43
Grey	1928	225,072 91	56,857 74	281,930 65	225,231 00	56,386 13			313 52
	1929	316,585 82	83,244 40	399,830 22	306,478 19	79,966 04			13,385 99
Haldimand	1928	18,179 78	25,536 91	43,716 69	34,973 35	8,743 34			
	1929	235,709 85	35,574 43	271,284 28	217,027 42	54,256 86			
Halton	1928	203,281 59	43,077 15	246,358 74	195,977 67	49,271 75			1,109 32
	1929	173,877 83	38,331 77	212,209 60	169,175 73	42,441 91			591 96
Hastings	1928	90,873 51	42,935 01	133,808 52	105,648 07	26,761 70			1,398 75
	1929	197,373 14	34,303 05	231,676 19	184,449 90	46,335 23			891 06
Huron	1928	300,449 92	18,498 88	318,948 80	255,159 04	63,789 76			
	1929	195,499 54	15,461 08	210,960 62	168,768 49	42,192 13			
Kent	1928	710,888 11	51,740 39	762,628 50	608,944 78	152,525 70			1,158 02
	1929	640,005 74	42,215 13	682,220 87	544,938 53	136,444 18			838 16
Lambton	1928	259,026 39	24,299 42	283,325 81	226,318 60	56,665 16			342 05
	1929	355,940 80	24,033 89	379,974 69	303,746 35	75,994 94			233 40
Lanark	1928	154,742 98	37,400 91	192,143 89	153,715 12	38,428 77			
	1929	247,542 31	30,256 44	277,798 75	222,239 00	55,559 75			
Leeds and Grenville	1928	524,749 58	84,841 59	609,591 17	487,672 94	121,918 23			
	1929	724,313 74	84,381 19	808,694 93	646,955 94	161,738 99			

Lennox and Addington	1928	293,356 64	19,911 47	313,268 11	250,614 49	62,653 62			
	1929	58,823 12	6,337 50	65,160 62	52,128 50	13,032 12			
Lincoln	1928	60,278 83	25,219 04	85,497 87	65,511 91	17,099 56			2,886 40
	1929	28,158 62	34,180 75	62,339 37	47,367 82	12,467 87			2,503 68
Middlesex	1928	385,009 11	61,291 49	446,300 60	354,705 83	89,260 11			2,334 66
	1929	858,997 88	63,668 19	922,666 07	730,640 73	184,533 20			7,492 14
Norfolk	1928	205,333 68	30,581 14	235,914 82	188,707 86	47,086 96	120 00		
	1929	128,796 35	19,812 27	148,608 62	118,886 90	29,721 72			
Ontario	1928	405,267 98	85,171 15	490,439 13	382,912 18	98,087 83			9,439 12
	1929	530,456 65	103,463 27	633,919 92	497,543 84	126,783 98			9,592 10
Oxford	1928	50,406 16	10,246 93	60,653 09	48,159 34	12,130 62			363 13
	1929	1,889 08	10,653 67	12,542 75	9,709 29	2,508 55			324 91
Peel	1928	223,856 89	64,032 88	287,889 77	218,076 69	57,577 95			12,235 13
	1929	246,789 76	39,184 94	285,974 70	208,293 17	57,194 94			20,486 59
Perth	1928	209,995 87	22,121 62	232,117 49	185,387 08	46,423 50			306 91
	1929	118,664 80	30,877 99	149,542 79	119,261 74	29,908 56			372 49
Peterborough	1928	117,017 70	8,195 10	125,212 80	78,792 31	25,042 56			21,377 93
	1929	43,033 45	11,532 85	54,566 30	42,453 47	10,913 26			1,199 57
Prince Edward	1928	48,399 12	21,019 10	69,418 22	44,982 86	13,883 64			10,551 72
	1929	310 73	22,768 85	23,079 58	18,463 66	4,615 92			
Renfrew	1928	167,943 78	39,189 46	207,133 24	165,706 60	41,426 64			
	1929	268,391 93	55,552 04	323,943 97	259,155 18	64,788 79			
Russell and Prescott	1928	301,793 66	25,297 28	327,090 94	261,672 75	65,418 19			
	1929	63,243 53	22,231 25	85,474 78	68,379 82	17,094 96			
Simcoe	1928	193,553 26	115,317 07	308,870 33	247,096 27	61,774 06			
	1929	572,723 52	122,050 19	694,773 71	555,818 97	138,954 74			
Victoria	1928	312,534 19	22,253 55	334,787 74	267,830 19	66,957 55			
	1929	177,808 51	19,432 87	197,241 38	157,793 11	39,448 27			
Waterloo	1928	4,436 29	12,343 11	16,779 40	12,901 63	3,355 88			521 89
	1929	85,210 24	13,576 12	98,786 36	73,340 53	19,757 27			5,688 56
Welland	1928	880,886 94	30,289 62	911,176 56	687,485 85	221,526 96			2,163 75
	1929	217,705 55	38,714 39	256,419 94	202,097 41	51,283 99			3,038 54
Wellington	1928	384,108 23	46,505 32	430,613 55	331,278 02	86,122 70			13,212 83
	1929	476,298 17	41,816 69	518,114 86	411,767 30	103,622 97			2,724 59
Wentworth	1928	339,303 49	45,940 72	385,244 21	281,177 15	76,441 89	606 95		27,018 22
	1929	269,495 86	80,416 46	349,912 32	228,813 92	69,571 38	411 08		51,115 94
York	1928	971,797 70	57,804 79	1,029,602 49	617,761 49	205,920 50			205,920 50
	1929	575,619 54	67,882 38	643,501 92	386,101 13	128,700 39			128,700 40
Burlington Beach	1928	933 75	1,716 57	2,650 32	2,120 26			530 06	
	1929	Cr. 105 25	1,812 68	1,707 43	1,365 94			341 49	
Indian Reserve (Hastings County)	1928	310 21	5,678 36	5,988 57	4,790 86			1,197 71	
	1929	76,857 95	1,719 17	78,577 12	62,861 70			15,715 42	
Total		$19,819,081 39	$2,930,504 05	$22,749,585 44	$17,546,198 72	$4,570,309 88	$1,138 03	$17,784 68	$614,154 13

APPENDIX No. 4

EXPENDITURE ON PROVINCIAL SURBURBAN AREAS, 1928 AND 1929

City	Year	Construction	Maintenance	Total Expenditure	Proportion Paid by Cities
		$ c.	$ c.	$ c.	$ c.
Belleville	1928	47,358 92	12,393 47	59,752 39	11,950 47
	1929	1,927 13	2,528 14	4,455 27	891 06
Brantford	1928	20,944 67	12,847 00	33,791 67	6,758 33
	1929	29,709 99	16,225 33	45,935 32	9,187 07
Chatham	1928	1,252 89	4,537 21	5,790 10	1,158 02
	1929	1,198 92	2,991 92	4,190 84	838 16
Galt	1928	....	470 35	470 35	94 07
	1929	....	1,951 66	1,951 66	390 33
Guelph	1928	63,800 46	2,263 70	66,064 16	13,212 83
	1929	8,776 37	4,846 59	13,622 96	2,724 59
Hamilton	1928	95,575 52	39,515 63	135,091 15	27,018 22
	1929	189,817 91	65,761 82	255,579 73	51,115 94
Kingston	1928	30 01	8,960 83	8,990 84	1,798 17
	1929	3,030 52	8,531 67	11,562 19	2,312 43
Kitchener	1928	....	2,139 08	2,139 08	427 82
	1929	23,728 81	2,762 34	26,491 15	5,298 23
London	1928	2,820 42	8,852 89	11,673 31	2,334 66
	1929	20,753 02	16,707 69	37,460 71	7,492 14
Niagara Falls	1928	2,942 34	3,364 52	6,306 86	1,261 37
	1929	2,544 62	5,654 40	8,199 02	1,639 80
Ottawa	1928	25,320 36	16,487 95	41,808 31	8,361 66
	1929	15,224 66	24,264 45	39,489 11	7,897 82
Owen Sound	1928	283 80	1,283 82	1,567 62	313 52
	1929	66,325 68	604 29	66,929 97	13,385 99
Peterborough	1928	102,852 98	4,036 69	106,889 67	21,377 93
	1929	1,463 01	4,534 87	5,997 88	1,199 57
Sarnia	1928	777 73	932 50	1,710 23	342 05
	1929	306 72	860 30	1,167 02	233 40
St. Catharines	1928	6,303 36	8,128 66	14,432 02	2,886 40
	1929	530 72	11,987 70	12,518 42	2,503 68
St. Thomas	1928	3,173 55	5,804 44	8,977 99	1,795 60
	1929	51,609 74	8,839 04	60,448 78	12,089 76
Stratford	1928	....	1,534 57	1,534 57	306 91
	1929	190 82	1,671 64	1,862 46	372 49
Toronto	1928	996,818 30	146,702 07	1,143,520 37	228,704 07
	1929	667,159 21	129,696 03	796,855 24	159,371 05
Welland	1928	1,894 99	2,616 89	4,511 88	902 38
	1929	3,365 43	3,628 28	6,993 71	1,398 74
Windsor	1928	484 70	4,167 81	4,652 51	930 50
	1929	1,270 04	4,674 26	5,944 30	1,188 86
Woodstock	1928	176 12	1,639 55	1,815 67	363 13
	1929	58 19	1,566 37	1,624 56	324 91
Total	....	2,461,802 63	608,968 42	3,070,771 05	614,154 13

EXPENDITURE ON PROVINCIAL HIGHWAY CONNECTING LINKS IN SEPARATED TOWNS, 1928 AND 1929

Town	Year	Construction	Maintenance	Total Expenditure	Proportion Paid by Towns
		$ c.	$ c.	$ c.	$ c.
Delhi	1928	480 00	....	480 00	120 00
Dundas	1928	4 00	380 46	384 46	76 89
Dundas	1929	....	347 96	347 96	69 59

APPENDIX No. 5

SCHEDULE OF ASSUMPTIONS AND REVERSIONS OF SECTIONS OF THE KING'S HIGHWAY SYSTEM FOR THE YEARS 1928 AND 1929

During the two years the system was extended by assuming 86.85 miles, less 39.53 miles reverted, making a total assumed of 2,437.8 miles. A list of the roads added to the system, together with the mileage and date of designation, also list of roads and mileage reverted from the system, is as follows:—

The King's Highways Assumed in 1928

County	Date of Designation	Municipality	Mileage	Total Mileage
York	15th of August, 1928	Aurora Town	0.18	
	25th of January, 1928	Woodbridge Village	0.84	1.02
Lambton	1st of February, 1928	Oil Spring Village	1.68	
	25th of January, 1928	Petrolia Town	1.66	3.34
Lanark	21st of March, 1928	Pakenham Township	2.10	
	22nd of August, 1928	Pakenham Township	1.70	3.80
Carleton	21st of March, 1928	Fitzroy Township	2.90	
	28th of March, 1928	Nepean Township	1.30	
	28th of March, 1928	March Township	2.20	
	15th of August, 1928	Fitzroy Township	3.40	9.80
Halton	22nd of August, 1928	Nelson Township	4.76	4.76
Wentworth	15th of August, 1928	Flamboro E. Township	0.30	0.30
Dundas	2nd of May, 1928	Winchester Village	0.87	
	2nd of May, 1928	Morrisburg Village	1.29	2.16
Durham	18th of July, 1928	Hope Township	0.39	
	1st of August, 1928	Port Hope Town	0.53	
	18th of July, 1928	Clark Township	0.16	1.08
Grey	3rd of October, 1928	Flesherton Village	0.56	
	18th of July, 1928	Thornbury Town	1.30	1.86
Hastings	18th April, 1928	Marmora Township	1.82	
	18th of April, 1928	Rawdon Township	11.87	
	18th of April, 1928	Sidney Township	6.02	
	18th of April, 1928	Thurlow Township	0.40	20.11
Middlesex	14th of November, 1928	Strathroy Town	0.91	
	14th of November, 1928	Caradoc Township	0.57	1.48
Norfolk	3rd of October, 1928	Simcoe Town	0.06	0.06
Renfrew	21st of March, 1928	McNab Township	0.40	0.40
Simcoe	25th of January, 1928	Orillia Town	1.71	
	22nd of February, 1928	Collingwood Town	4.96	6.67
Victoria	22nd of August, 1928	Omemee Village	0.63	
	26th of December, 1928	Omemee Village	0.03	0.66
Welland	2nd of May, 1928	Humberstone Township	4.10	4.10
Wellington	25th of July, 1928	Palmerston Town	0.28	0.28
Total				61.88

Reversions from January 1st, 1928, to December 31st, 1928

County	Municipality	Year	Mileage	Total Mileage
Bruce	Mildmay Village	1928	0.50	0.50
Carleton	Nepean Township	1928	1.65	
	March Township	1928	2.70	
	Fitzroy Township	1928	1.60	
	Nepean Township	1928	6.20	12.15
Durham	Newcastle Village	1928	0.31	
	Darlington Township	1928	0.35	
	Hope Township	1928	0.38	
	Clark Township	1928	0.14	1.18
Grey	Collingwood Township	1928	0.53	0.53
Hastings	Thurlow Township	1928	1.60	1.60
Lanark	Pakenham Township	1928	6.10	6.10
Lincoln	Grimsby Village	1928	0.55	0.55
Ontario	Oshawa City	1928	0.510	0.51
Peel	Brampton Town	1928	0.46	0.46
Renfrew	Arnprior Town	1928	0.46	0.46

Revisions from January 1st, 1928, to December 31st, 1928—*Continued*

County	Municipality	Year	Mileage	Total Mileage
Victoria	Ops Township	1928	0.41	0.41
Waterloo	Waterloo Township	1928	0.22	0.22
Wellington	Clifford Village	1928	0.52	
	Fergus Village	1928	0.41	0.93
Wentworth	Saltfleet Township	1928	0.70	0.70
Total				26.30

Reversions from January 1st, 1929, to December 31st, 1929

County	Municipality	Year	Mileage	Total Mileage
Glengarry	Charlottenburg Township	1929	0.31	0.31
Grey	St. Vincent Township	1929	1.27	
	Chatsworth Village	1929	0.34	1.61
Halton	Burlington Town	1929	1.59	
	Oakville Town	1929	1.27	2.86
Ontario	Mara Township	1929	0.81	
	Brock Township	1929	.20	1.01
Peel	Port Credit Village	1929	1.86	1.86
Wentworth	Saltfleet Township	1929	2.00	
	Hamilton City	1929	0.56	2.56
York	Mimico Town	1929	1.43	
	New Toronto Town	1929	1.59	3.02
Total				13.23

The King's Highways Assumed in 1929

County	Date of Designation	Municipality	Mileage	Total Mileage
Essex	10th of July, 1929	Sandwich S. Township	2.30	
	10th of July, 1929	Sandwich W. Township	5.20	7.50
Lambton	6th of March, 1929	Wyoming Village	1.20	1.20
Leeds	24th of July, 1929	Leeds Township	11.50	11.50
Middlesex	13th of January, 1929	Strathroy Town	0.76	0.76
Norfolk	25th of September, 1929	Waterford Village	0.34	
	17th of April, 1929	Port Dover Village	0.25	0.59
Ontario	16th of January, 1929	Beaverton Village	0.43	0.43
Oxford	25th of May, 1929	Tillsonburg Town	1.47	1.47
Renfrew	2nd of January, 1929	Arnprior Town	0.56	0.56
Simcoe	6th of November, 1929	Penetanguishene Town	0.25	
	6th of November, 1929	Barrie Town	0.20	0.45
Welland	13th of March, 1929	Humberstone Village	0.51	0.51
Total				24.97

APPENDIX No. 6

GROWTH OF COUNTY ROAD EXPENDITURES AND PROVINCIAL GRANTS

Year work was done	Number of Counties	Expenditure	Government Grant
1903	4	$166,149 06	$55,383 02
1904	7	291,085 42	97,028 48
1905	7	179,593 62	59,864 53
1906	10	247,102 37	82,367 45
1907	14	383,518 86	127,839 62
1908	15	429,393 57	143,131 16
1909	16	440,374 08	146,791 36
1910	17	553,312 61	184,437 54
1911	19	712,072 52	237,357 50
1912	20	898,631 18	299,543 69
1913	20	847,684 15	282,561 35
1914	20	785,521 93	261,840 61
1915	20	811,540 05	270,513 34
1916	23	955,447 19	327,663 76
1917	32	1,388,341 87	483,621 32
1918	36	2,226,899 70	815,440 01
1919	37	5,714,937 19	2,623,719 24
1920	37	7,956,863 72	3,626,418 08
1921	37	11,078,288 39	5,119,882 26
1922	37	9,162,491 79	4,258,339 83
1923	37	7,403,509 96	3,418,523 07
1924	37	6,861,451 62	3,214,321 50
1925	37	6,608,431 04	3,222,678 10
1926	37	5,838,445 12	2,913,660 96
1927	37	7,424,464 85	3,706,719 88
1928	..	8,784,420 42	4,360,222 86
1929	..	9,212,758 04	4,591,110 16
Totals to date	..	$97,362,730 32	$44,930,980 68

APPENDIX No. 7

COUNTY ROAD MILEAGE AND EXPENDITURE

From Inception of County Road Systems up to December 31st, 1929
Provincial Subsidies on 1929 Expenditure being paid in 1930

County	Year of Establishment of System	Road Mileages			Total Approved Expenditure to end of 1929	Total Government Grant
		County Roads	County Suburban Roads	Total		
Brant	1917	86.5	25.0	111.5	$1,737,057 85	860,294 78
Bruce	1917	310.5	....	310.5	2,210,757 50	1,095,358 03
Carleton	1909	132.7	102.3	235.0	5,634,558 22	2,610,201 42
Dufferin	1918	158.0	....	158.0	1,044,968 74	487,377 04
Elgin	1917	224.7	16.3	241.0	1,897,301 25	872,936 25
Essex	1916	241.4	40.3	281.7	5,003,556 27	2,446,166 41
Frontenac	1906	112.0	36.5	148.5	1,140,611 07	504,296 52
Grey	1918	182.0	44.0	226.0	2,600,154 71	1,277,200 51
Haldimand	1911	157.0	....	157.0	1,818,076 79	807,697 98
Halton	1907	119.0	....	119.0	1,815,421 45	811,765 33
Hastings	1904	377.1	4.9	382.0	2,516,246 04	1,130,982 47
Huron	1917	363.0	....	363.0	2,026,688 31	950,078 92
Kent	1917	228.5	12.0	240.5	3,176,088 39	1,584,375 95
Lambton	1918	235.0	11.0	246.0	1,954,977 21	928,490 99
Lanark	1903	237.5	6.5	244.0	2,243,795 14	1,043,983 83
Leeds and Grenville	1910	261.6	5.4	267 0	2,237,482 86	972,034 09
Lennox and Addington	1906	150.5	....	150.5	1,753,756 81	831,554 11
Lincoln	1904	145.3	9.7	155.0	3,369,353 07	1,421,489 68
Middlesex	1906	359.0	28.0	387.0	3,288,039 82	1,459,709 71
Norfolk	1917	216.5	....	216.5	2,297,009 84	1,062,831 73
Northumberland and Durham	1918	263.0	....	263 0	2,082,850 06	1,013,139 32
Ontario	1918	174.5	9.0	183.5	1,310,096 73	621,414 34
Oxford	1904-7	217.5	7.5	225.0	2,236,602 62	945,603 03
Peel	1906	138.5	....	138.5	1,854,459 17	789,111 69
Perth	1907	140.0	9.0	149.0	1,299,113 29	564,596 77
Peterborough	1919	130.0	38.0	168.0	662,797 09	306,758 19
Prescott and Russell	1917	206.0	....	206.0	3,910,486 28	1,727,797 06
Prince Edward	1907	124.0	....	124.0	1,363,987 28	593,015 84
Renfrew	1918	215.0	....	215.0	2,610,484 35	1,261,446 30
Simcoe	1903	257.0	....	257.0	3,117,885 34	1,403,898 03
Stormont, Dundas and Glengarry	1917	348.0	....	348.0	4,506,122 30	2,179,539 03
Victoria	1917	165.0	....	165.0	1,947,041 08	962,534 81
Waterloo	1908	140.4	17.1	157.5	2,513,104 14	1,209,953 18
Welland	1912	113.5	14.5	128.0	3,827,988 11	1,734,642 26
Wellington	1903	290.0	13.0	303.0	2,779,906 89	1,263,354 12
Wentworth	1902	122.0	36.0	158.0	3,084,492 96	1,357,610 64
York	1911	35.0	232.0	267.0	8,489,411 29	3,837,740 32
Totals	....	7,377.2	718.0	8,095.2	$97,362,730 32	$44,930,980 68

APPENDIX

SUMMARY

Statement of Work and

County	Work Done							
	Miles Graded	Miles Stoned		Miles Gravelled	Tile Drain Rods	Bridges	Pipe and Tile Culverts	Other Culverts
Brant	3.25	......	Bit. Mac. 1.50	1.75	252	....	7	....
Bruce	14.46	......	......	20.46	....	3	21	14
Carleton	20.10	.60	Asp. Conc. 9.60 Bit. Mac. 4.05	6.75	55	....	103	....
Dufferin	32.65	......	......	45.00	....	4	97	1
Elgin	6.86	5.56		2.05	1,530	....	16	8
Essex	19.50	......	Conc. 21.57	1.50	1,627	2	30	11
Frontenac	6.25	3.00		1.25	....	....	23	1
Grey	16.50	......	Bit. Mac. .50	16.00	424	3	5	36
Haldimand	12.25	27.00		1.25	....	3	38	....
Halton	2.75	.50		2.25	....	1	6	1
astings	12.75	8.25		6.25	....	2	83	2
Huron	3.75	......	......	6.25	....	....	....	....
Kent	41.93	10.75	Asp. Conc. 5.33	24.25	806	2	92	3
Lambton	24.34	17.75	Conc. 0.34	6.50	252	2	20	16
Lanark	4.20	5.20	Bit. Mac. 4.00	1.10	....	1	53	1
Leeds and Grenville	17.00	10.25		6.50	73	2	46	....
Lennox and Addington	9.89	8.71	Asp. Conc. 7.17	....	....	....	75	....
Lincoln	11.60	10.10	......	1.50	299	....	107	6
Middlesex	23.47	......	Conc. 5.23	....	283	4	30	1
Norfolk	17.05	.35	......	18.70	539	3	45	....
Northumberland and Durham	10.72	......	......	33.97	....	8	42	....
Ontario	10.98	......	Conc. 1.93	6.85	1.005	5	99	7
Oxford	16.00	......	Asp. Conc. 1.05 Bit. Mac. 1.10	13.50	1,242	1	17	2
Peel	9.85	3.25		5.25	97	2	55	4
Perth	30.75	......	......	88.42	59	2	37	....
Peterborough	5.44	......	......	5.44	5	....	36	....
Prescott and Russell	26.75	7.25		17.75	....	1	29	1
Prince Edward	7.75	7.00	Bit. Mac. 0.75 Asp. Conc. 1.00	....	....	....	57	3
Renfrew	4.89	......	......	3.65	....	1	21	13
Simcoe	22.10	0.25		22.75	....	3	12	32
Stormont, Dundas and Glengarry	8.75	6.50		3.50	....	....	....	....
Victoria	14.19	4.93		7.59	....	3	88	1
Waterloo	21.31	......	Conc. 0.39 Asp. Con. 2.00	14.86	45	1	43	2
Welland	9.41	2.11	Asp. Conc. 4.70	....	....	2	18	22
Wellington	13.53		Asp. Conc. 1.00	12.53	480	3	82	4
Wentworth	5.23	10.96	Bit. Mac. 3.01	1.67	168	1	30	7
York	52.33	20.33	Bit. Mac. 6.75 Asp. Con. 15.57	8.25	8,414	1	33	2
Totals	570.53	269.14*		415.29	17,655	66	1,596	201

*Includes:—

Waterbound Macadam	170.60	miles.
Bituminous Macadam	21.66	"
Cement Concrete	29.46	"
Asphaltic Concrete	47.42	"

No. 8

1928

Expenditure on County Roads

Approved Expenditure

Roads and Culverts	Bridges	Machinery and Repairs	Urban Improvement	Purchase of Gravel Pits	Superintendence	Total Construction	Maintenance	Total Approved Expenditure	Subsidy 50%
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
32,378 78	328 61	1,3279 53	4,857 96	350 00	5,356 85	56,551 73	53,209 15	109,760 88	54,880 44
67,096 96	6,238 79	12,707 23	80,636 77	....	4,447 58	171,127 33	70,647 83	241,775 16	120,887 58
267,448 09	3,998 60	11,582 60	9,361 48	....	10,876 86	303,267 63	75,341 88	378,609 51	189,304 76
62,961 91	7,124 09	1,527 20	9,609 25	....	4,931 45	86,153 90	27,221 03	113,374 93	56,393 48
42,167 87	9,254 60	14,630 01	....	....	3,300 99	69,353 47	107,916 53	177,270 00	88,635 01
561,639 61	21,092 00	2,758 78	86,504 31	1,000 00	4,707 66	677,702 36	132,147 88	809,850 24	404,925 12
16,885 44	....	4,630 36	....	....	1,928 08	23,443 88	66,269 04	89,712 92	44,856 46
94,791 49	13,345 92	8,676 02	21,600 00	500 00	4,573 52	143,486 95	44,867 69	188,354 64	94,177 32
97,231 18	13,586 26	491 28	....	....	4,438 54	115,747 26	22,495 84	138,243 10	68,923 85
20,618 49	924 77	258 76	....	....	2,061 75	23,863 77	40,527 95	64,391 72	32,195 86
53,570 46	10,692 15	3,456 37	30,094 81	....	4,476 02	102,289 81	78,880 08	181,169 89	90,584 94
16,120 81	....	21,873 86	9,821 00	820 00	5,381 12	54,016 79	127,986 06	182,002 85	91,001 47
146,615 03	7,895 63	20,945 14	24,446 07	4,200 00	4,932 09	209,033 96	114,557 91	323,591 87	161,676 99
63,672 15	8,049 19	11,238 62	....	....	4,642 64	87,602 60	96,144 44	183,747 04	91,873 52
80,705 95	1,619 41	5,372 88	....	....	4,488 19	92,186 43	52,228 95	144,415 38	72,207 69
94,317 94	9,295 66	2,590 36	20,688 50	....	4,578 25	131,470 71	25,399 38	156,870 09	78,435 04
214,457 80	....	7,903 01	....	....	3,008 71	225,369 52	44,561 83	269,931 35	134,965 67
134,577 15	....	11,622 37	5,515 27	....	5,417 27	157,132 06	71,864 04	228,996 10	114,498 05
143,829 76	38,862 90	11,246 12	....	420 00	5,233 04	199,591 82	108,887 45	308,479 27	154,239 64
71,584 58	7,011 00	16,271 80	11,196 38	1,800 00	5,250 41	113,114 17	79,466 05	192,580 22	96,290 11
43,207 18	27,621 18	17,518 45	222,485 92	....	4,330 05	315,162 78	42,592 49	357,755 27	178,877 63
83,624 50	13,081 58	781 17	22,567 15	....	5,060 20	125,114 60	42,270 92	167,385 52	83,692 76
72,798 74	5,611 60	11,733 05	16,085 98	....	2,903 48	109,132 85	50,197 79	159,330 64	79,665 32
63,421 13	41,765 66	8,678 26	....	....	4,215 55	118,080 60	48,242 94	166,323 54	83,161 77
97,116 15	1,275 95	2,162 14	....	150 00	3,827 50	104,531 74	13,509 79	118,041 53	59,020 76
24,761 85	9,138 07	4,985 03	....	....	3,396 00	42,280 95	43,307 61	85,588 56	42,794 28
146,357 19	32,401 05	407 13	6,738 36	....	3,255 71	189,159 44	84,782 98	273,942 42	136,971 21
57,050 14	....	8,083 50	....	864 60	2,211 04	68,209 28	41,189 37	109,398 65	54,699 32
31,525 62	6,699 63	2,875 50	12,604 53	....	6,617 16	60,322 44	24,800 82	85,123 26	42,561 63
91,050 62	80,411 72	4,413 96	46,629 51	....	3,585 00	226,090 81	62,677 72	288,768 53	144,348 43
46,635 48	....	1,185 00	20,238 79	....	6,030 85	74,090 12	97,388 98	171,479 10	85,736 61
101,030 94	12,743 87	7,951 55	28,921 67	....	5,520 10	156,168 13	35,957 20	192,125 33	96,062 66
185,782 13	3,803 79	9,064 03	5,468 60	705 00	3,818 98	208,642 53	28,067 32	236,709 85	118,354 93
150,213 58	13,996 51	2,709 68	78,246 76	....	6,109 82	251,276 35	80,602 60	331,878 95	165,939 48
138,672 59	6,485 30	2,427 16	7,400 85	....	3,760 41	158,746 31	85,181 53	243,927 84	121,963 92
129,492 34	3,859 82	8,596 96	....	....	7,023 91	148,973 03	72,820 24	221,793 27	110,896 63
686,139 36	262,323 39	2,633 59	25,118 92	....	10,757 80	986,973 06	104,747 94	1,091,721 00	514,522 52
4,431,550 99	680,538 70	279,268 46	806,838 84	10,809 60	176,454 58	6,385,461 17	2,398,959 25	8,784,420 42	4,360,222 86

APPENDIX

SUMMARY

Schedule of Expenditure on Maintenance

For the period beginning January 1st, 1928,

County	Brushing and Weed Cutting	Ditching	Grading	Dragging	Culverts (Repairs only)
	$ c.	$ c.	$ c.	$ c.	$ c.
Brant	1,997 58	1,252 76	839 15	5,534 27	162 51
Bruce	1,718 41	....	5,399 84	17,042 22	791 18
Carleton	3,351 04	2,712 06	5,282 69	1,234 87	556 53
Dufferin	961 81	528 30	1,844 00	5,122 66	202 18
Elgin	1,996 47	1,453 37	7,780 16	9,683 90	481 10
Essex	4,157 47	2,181 40	451 81	18,252 04	281 15
Frontenac	134 60	3 00	22 50	1,854 58	187 06
Grey	593 82	295 38	2,025 40	5,417 31	726 15
Haldimand	1,451 65	21 75	367 25	4,570 86	444 07
Halton	921 95	570 40	2,357 93	2,308 96	51 40
Hastings	1,010 65	....	8,986 52	4,512 46	2,451 64
Huron	3,740 41	3,179 64	1,701 71	25,116 86	2,849 21
Kent	4,926 78	5,812 51	3,972 45	21,661 38	502 80
Lambton	1,403 00	2,279 78	2,025 89	21,122 99	3,658 27
Lanark	2,174 80	4,401 88	3,605 03	1,549 27	4,267 00
Leeds and Grenville	999 92	308 21	1,053 90	2,257 93	313 90
Lennox and Addington	65 55	24 00	13 00	205 10	610 76
Lincoln	2,531 52	1,546 30	1,003 19	3,194 44	550 86
Middlesex	3,249 79	2,064 49	1,365 92	17,223 46	746 94
Norfolk	1,894 86	28 50	3,913 40	5,722 71	1,239 86
Northumberland and Durham	630 70	873 27	1,083 66	8,144 00	1,190 41
Ontario	1,081 68	621 55	1,137 85	5,513 06	304 75
Oxford	1,731 77	529 93	480 54	6,838 45	493 47
Peel	1,304 10	435 31	472 41	5,157 76	114 27
Perth	1,229 97	86 76	1,160 14	5,525 05	84 47
Peterborough	1,476 17	315 42	2,670 63	5,146 73	572 18
Prescott and Russell	1,819 65	956 55	6,049 19	1,786 49	174 28
Prince Edward	146 00	11 25	407 50	97 00	120 74
Renfrew	766 97	....	2,200 39	1,159 41	1,341 33
Simcoe	844 91	281 77	2,560 64	10,272 87	407 42
Stormont, Dundas and Glengarry	2,699 55	614 69	2,014 94	10 40	3,929 90
Victoria	1,308 95	233 50	469 50	7,511 39	309 65
Waterloo	599 78	172 67	1,065 50	1,404 58	436 35
Welland	2,275 65	974 35	1,856 45	152 15	937 18
Wellington	1,888 15	958 75	4,329 11	13,431 34	473 26
Wentworth	2,648 18	2,964 89	1,964 21	6,988 11	729 03
York	3,617 33	3,403 02	419 84	5,224 09	444 20
Totals	65,351 59	42,097 41	84,354 23	257,951 15	33,137 46

No. 9

1928

and Repair on County Roads

and ending December 31st, 1928

Bridges (Repairs only)	Re-surfacing	Oiling, etc.	Snow Roads	Wire Fence Bonus and Guard Rails	Urban Improvement	Total Expenditure	Government Grant, 50%
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
377 08	41,822 71	....	1,189 99	33 10	....	53,209 15	26,604 58
1,270 50	32,914 84	4,739 18	6,771 66	.	Included	70,647 83	35,323 91
1,216 00	37,972 68	13,151 65	9,864 36	....	....	75,341 88	37,670 94
1,382 18	13,762 69	....	2,562 11	....	855 10	27,221 03	13,610 51
729 45	72,944 36	4,280 94	353 77	....	8,213 01	107,916 53	53,958 26
2,183 76	51,227 50	2,500 00	18 40	....	50,894 35	132,147 88	66,073 94
....	10,830 87	52,537 92	534 22	164 29	....	66,269 04	33,134 52
781 81	24,990 10	1,136 03	2,301 24	2,101 57	4,498 88	44,867 69	22,433 85
1,504 90	9,285 36	....	....	....	4,850 00	22,495 84	11,050 22
550 00	32,295 72	471 86	82 85	212 24	704 64	40,527 95	20,263 98
4,290 17	38,285 43	16,046 39	2,986 14	310 68	....	78,880 08	39,440 04
2,984 16	71,112 11	9,842 12	5,759 07	1,700 77	....	127,986 06	63,993 08
15,527 29	54,952 25	....	125 05	1,852 87	5,224 53	114,557 91	57,160 01
387 46	59,650 65	710 14	135 86	238 86	4,531 54	96,144 44	48,072 22
1,513 14	21,057 29	11,939 40	1,619 64	101 50	....	52,228 95	26,114 47
507 49	14,537 49	4,962 95	376 04	81 55	....	25,399 38	12,699 69
8 70	32,700 74	9,793 60	1,140 38	....	....	44,561 83	22,280 91
488 31	39,982 50	19,992 06	17 40	....	2,557 46	71,864 04	35,932 02
1,766 53	77,612 79	1,600 91	3,256 62	....	....	108,887 45	54,443 72
238 88	64,952 83	587 83	622 66	264 52	....	79,466 05	39,733 03
7,172 69	14,578 71	1,142 73	3,347 21	9 75	4,419 36	42,592 49	21,296 25
352 79	29,295 56	839 67	2,263 82	860 20	....	42.270 92	21,135 46
3,800 96	30,913 55	4,914 55	292 75	201 82	....	50,197 79	25,098 89
1,076 30	30,304 42	4,487 46	121 22	141 80	4,627 89	48,242 94	24,121 47
17 16	2,307 21	76 09	1,000 74	94 82	1,927 38	13,509 79	6,754 89
1,699 08	24,678 72	2,757 48	2,052 49	216 94	1,721 77	43,307 61	21,653 80
56 66	33,154 81	38,385 72	2,399 63	....	....	84,782 98	42,391 49
271 98	5,343 55	27,004 29	406 50	1,412 58	5,967 98	41,189 37	20,594 68
1,086 46	7,534 32	8,556 15	1,759 55	396 24	....	24,800 82	12,400 41
1,627 12	42,542 03	....	3,251 27	889 69	....	62,677 72	31,303 03
1,038 73	30,536 82	52,935 94	2,709 34	898 67	....	97,388 98	48,691 55
2,395 91	14,988 23	4,883 27	2,487 06	1,369 74	....	35,957 20	17,978 60
913 73	20,336 99	1,448 93	1,688 79	....	....	28,067 32	14,033 66
985 76	25,842 45	46,981 84	103 10	493 67	....	80,602 60	40,301 30
281 10	52,227 24	2,984 64	8,607 94	....	....	85,181 53	42,590 76
....	52,582 28	....	1,172 86	....	3,770 68	72,820 24	36,410 12
1,121 13	8,140 55	76,905 13	4,899 41	573 24	....	104,747 94	52,373 97
61,605 37	1,228,198 35	428,596 87	78,281 14	14,621 11	104,764 57	2,398,959 25	1,199,124 23

APPENDIX

SUMMARY

Statement of Work and

County	Work Done							
	Miles Graded	Miles Stoned	Miles Gravelled	Tile Drain Rods	Bridges	Pipe and Tile Culverts	Other Culverts	Roads and Culverts
								$ c.
Brant	2.20	....	2.20	155	....	6	....	20,771 94
Bruce	15.50	....	21.25	777	9	54	4	69,196 58
Carleton	14.43	3.60 Asp. Con. 4.23	7.90	160	4	70	5	182,595 95
Dufferin	22.80	....	28.40	29	6	40	1	28,892 02
Elgin	4.81	2.00	2.81	423	....	24	3	33,938 72
Essex	18.25	..... Cem. Con. 10.75 ..... Asp. Con. 6.00	.75	979	3	19	11	454,185 26
Frontenac	5.75	5.25	....	....	1	17	3	28,603 01
Grey	8.00	....	8.00	....	6	3	33	38,653 02
Haldimand	22.37	....	....	....	1	109	10	25,060 56
Halton	6.22	.50 Con. 5.68	....	....	....	41	....	121,048 96
Hastings	19.85	Bit. Mac. 0.75 16.75 Asp. Con. 1.60	18.50	....	1	111	....	100,232 80
Huron	2.50	....	2.25	....	1	....	4	12,540 97
Kent	18.42	5.75	14.67	339	1	74	....	111,596 38
Lambton	16.40	12.08 Con. .45	6.12	225	1	34	16	69,155 37
Lanark	25.00	13.80 Bit. Mac. 4.00	1.10	....	2	79	4	116,261 68
Leeds and Grenville	20.30	8.00 Con. .40	10.20	....	1	45	4	96,722 56
Lennox and Addington	12.27	4.25 Bit. Mac. 14.54	....	....	4	100	4	257,612 90
Lincoln	12.78	9.41 Con. 3.37	....	533	....	51	6	229,182 06
Middlesex	32.43	..... Con. 11.73	....	145	1	68	11	313,860 25
Norfolk	15.43	3.00 Con. 0.43	11.50	3,123	3	25	2	101,797 31
Northumberland and Durham	31.87	..... Bit. Mac. .50	36.91	....	7	59	....	287,313 61
Ontario	10.08	.30 Con. 2.81	6.47	1,681	4	26	1	16,835 43
Oxford	23.60	5.20 Bit. Mac. 1.50	17.60	55	5	27	3	83,457 88
Peel	9.10	4.75	4.85	30	1	93	1	54,420 15
Perth	29.90	..... Bit. Mac. .50	102.17	254	....	30	1	106,652 15
Peterborough	3.25	1.00	14.50	....	....	42	....	24,060 11
Prescott and Russell	9.00	3.00	4.50	....	....	2	4	29,217 42
Prince Edward	9.17	4.75 Asp. Con. 4.10	....	....	....	139	1	97,835 87
Renfrew	7.39	1.36 Bit. Mac. 1.89	6.01	....	3	21	8	70,565 59
Simcoe	12.00	....	12.00	....	3	40	5	66,566 37
Stormont, Dundas and Glengarry	11.00	7.50 Bit. Mac. 4.58	....	....	1	....	3	68,199 04
Victoria	14.42	7.61 Asp. Con. 3.54	2.92	....	3	115	....	243,427 92
Waterloo	12.26	..... Asp. Con. 1.00 ..... Con. 3.00	9.99	....	....	33	....	148,082 86
Welland	14.10	8.72 Con. 1.35 ..... Asp. Con. 1.96	....	....	1	18	40	219,250 16
Wellington	12.47	..... Con. 2.25	9.12	330	5	79	2	108,031 21
Wentworth	15.69	8.27 Con. 1.31 ..... Asp. Con. 1.94	8.44	177	2	91	8	135,705 95
York	27.37	1.02 Asp. Con. 16.48 ..... Bit. Mac. 4.94	7.00	7,333	1	14	1	456,170 42
Totals	548.38	255.45*	378.13	16,748	81	1,799	199	4,627,700 44

*Includes:

Waterbound Macadam	137.87	miles.
Bituminous Macadam	33.20	"
Cement Concrete	43.53	"
Asphaltic Concrete	40.85	"

No. 10

1929

Expenditure on County Roads

Approved Expenditure								
Bridges	Machinery and Repairs	Urban Improvement	Purchase of Gravel Pits	Superintendence	Total Construction	Maintenance	Total Approved 50%	Subsidy Expenditure
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,674 64	19,884 88	93 60	....	6,387 97	48,813 03	53,454 37	102,267 40	51,133 70
22,986 73	28,316 57	14,571 77	....	4,756 35	139,828 00	84,328 14	224,156 14	112,078 07
9,762 76	16,927 83	8,463 29	....	10,900 60	228,650 43	64,170 06	292,820 49	146,410 24
14,472 34	83	35,559 95	....	4,353 69	83,278 83	30,474 32	113,753 15	56,425 91
5,510 20	15,741 18	18,250 41	....	3,322 78	76,763 29	80,730 61	157,493 90	78,746 96
19,659 03	8,042 31	113,517 80	160,012 00	4,576 38	615,992 78	78,399 72	694,392 50	347,196 25
1,080 33	1,519 01	....	....	2,050 84	33,253 19	58,634 86	91,888 05	45,944 03
33,459 26	6,783 28	77,928 21	1,300 00	4,986 28	163,110 05	91,708 25	254,818 30	127,409 15
5,204 12	....	4,850 00	....	4,152 19	39,266 87	122,452 11	161,718 98	80,859 49
1,609 48	4,673 23	....	....	2,072 90	129,404 57	24,748 68	154,153 25	77,076 62
7,009 60	8,429 51	....	1,100 00	3,476 58	120,248 49	90,008 59	210,257 08	105,128 54
12,931 68	11,534 70	9,821 00	....	5,890 08	52,718 43	120,215 03	172,933 46	86,466 72
14,344 67	18,770 58	38,783 05	....	5,325 01	188,819 69	87,629 69	276,449 38	138,224 69
3,090 99	8,353 17	6,108 06	....	4,505 83	91,213 42	106,585 06	197,798 48	98,899 25
4,029 94	10,600 29	8,314 47	....	5,001 64	144,208 02	61,371 66	205,579 68	102,789 84
758 60	924 13	50,328 72	....	3,019 10	151,753 11	34,388 51	186,141 62	93,070 81
14,915 52	2,954 81	44,250 66	....	4,773 69	324,507 58	46,663 29	371,170 87	185,585 44
....	5,647 96	5,333 98	....	6,063 85	246,227 85	62,413 75	308,641 60	154,320 80
6,388 99	23,604 49	....	....	5,249 09	349,102 82	123,474 58	472,577 40	236,288 70
12,696 66	19,018 40	26,509 19	....	4,712 35	164,733 91	108,772 35	273,506 26	136,753 13
25,701 26	16,639 04	272,922 10	....	4,536 73	607,112 74	33,592 77	640,705 51	320,352 75
50,000 06	6,869 08	2,605 42	....	5,128 49	81,438 48	47,311 12	128,749 60	64,374 80
5,643 92	9,349 60	18,439 79	2,207 25	6,454 82	125,553 26	66,386 71	191,939 97	95,969 99
6,817 01	2,414 71	....	....	4,715 53	68,367 40	38,269 02	106,636 42	53,318 21
....	1,987 56	2,215 71	125 00	4,098 01	115,078 43	11,878 04	126,956 47	63,478 23
....	6,498 85	....	....	3,306 60	33,865 56	53,981 36	87,846 92	43,923 46
....	2,173 07	6,603 86	....	5,347 99	43,342 34	93,823 99	137,166 33	68,583 17
972 76	9,329 68	13,018 04	500 00	2,422 53	124,078 88	36,216 37	160,295 25	80,147 62
10,243 69	7,870 22	26,139 79	....	5,771 39	120,590 68	31,866 13	152,456 81	77,109 00
10,819 86	11,029 54	50,936 75	....	3,941 20	143,293 72	78,598 19	221,891 91	110,945 95
4,896 40	3,590 00	22,794 66	....	6,455 82	105,935 92	109,437 36	215,373 28	107,686 64
8,193 03	7,044 30	28,921 67	....	5,361 94	292,948 86	52,722 62	345,671 48	172,835 74
2,286 42	13,879 21	5,468 60	....	6,887 95	176,605 04	32,188 21	208,793 25	104,396 63
22,482 92	3,108 81	18,255 45	....	6,979 14	270,076 48	59,227 51	329,303 99	164,652 00
8,764 91	3,943 71	7,400 85	....	4,271 87	132,412 55	111,105 13	243,517 68	121,758 84
9,637 23	7,710 32	3,880 90	....	7,356 93	164,291 23	81,109 97	245,401 20	122,700 60
159,548 91	3,986 45	25,202 15	....	9,727 82	654.635 75	92,898 23	747,533 98	358,068 19
517,593 92	329,151 31	967,489 80	21,244 25	188,341 96	6,651,521 68	2,561,236 36	9,212 758,04	4,591,110 16

APPENDIX
SUMMARY
Schedule of Expenditure on Maintenance
For the period beginning January 1st, 1928

County	Brushing and Weed Cutting	Ditching	Grading	Dragging	Culverts (Repairs only)
	$ c.	$ c.	$ c.	$ c.	$ c.
Brant	2,013 67	926 58	1,108 04	7,747 69	671 43
Bruce	2,305 93	....	4,298 09	21,583 02	1,274 62
Carleton	4,995 88	971 09	605 89	1,206 27	571 34
Dufferin	964 37	520 00	1,291 25	4,294 65	271 01
Elgin	2,749 76	1,535 23	8,708 67	7,550 82	764 42
Essex	6,321 30	3,857 70	690 13	16,284 26	93 27
Frontenac	460 90	295 55	....	2,406 85	90 11
Grey	1,135 36	803 52	3,860 83	7,846 04	777 06
Haldimand	1,724 15	3,023 50	7,922 85	3,328 86	2,046 08
Halton	1,227 70	420 59	1,011 15	1,866 32	291 20
Hastings	1,776 68	15 00	12,519 41	7,114 49	2,073 20
Huron	4,047 68	2,942 99	2,972 61	22,217 29	3,470 97
Kent	5,122 91	2,278 62	1,542 99	17,816 81	597 48
Lambton	3,155 86	3,934 90	3,632 34	26,000 68	2,727 05
Lanark	4,353 71	9,055 97	7,515 56	2,249 55	4,388 05
Leeds and Grenville	1,598 39	61 50	287 25	2,346 12	260 94
Lennox and Addington	223 68	....	15 75	64 80	382 42
Lincoln	2,539 80	1,974 79	177 25	3,982 66	933 25
Middlesex	4,381 88	2,117 29	1,928 78	18,767 24	1,092 11
Norfolk	2,593 25	338 35	5,704 47	4,838 88	2,167 26
Northumberland and Durham	1,770 53	1,230 23	1,091 06	7,665 18	1,431 72
Ontario	1,530 85	860 15	1,061 90	6,545 21	748 16
Oxford	2,626 14	467 06	1,517 78	10,191 05	493 97
Peel	2,241 62	318 85	499 77	4,627 62	267 53
Perth	1,112 18	114 15	1,317 58	5,942 12	164 32
Peterborough	1,847 50	843 40	8,152 76	3,417 10	585 93
Prescott and Russell	3,177 07	1,469 88	2,540 80	839 97	....
Prince Edward	563 25	....	240 00	77 20	159 23
Renfrew	1,036 25	....	3,355 77	1,359 22	900 93
Simcoe	1,473 75	1,846 30	10,064 94	15,921 51	692 81
Stormont, Dundas and Glengarry	3,892 99	3,970 05	3,528 04	44 50	5,048 53
Victoria	1,292 25	500 92	353 28	7,058 51	422 82
Waterloo	1,488 80	715 78	4,041 87	1,801 31	68 58
Welland	4,914 25	521 40	946 90	72 35	843 20
Wellington	3,050 47	1,334 45	6,309 22	16,533 82	1,652 18
Wentworth	5,245 53	3,054 98	3,884 15	8,103 72	977 68
York	4,011 95	5,412 68	9,680 66	1,842 37	595 01
Totals	94,958 25	57,733 45	124,379 79	271,556 06	39,995 88

APPENDIX
Summary of Expenditure

The following schedule shows in detail the work and approved expenditure on Township

Year	No. of Twps.	General Expenditure				
		Roads and Culverts	Bridges	Maintenance	Machinery	Purchase of Gravel Pits
		$ c.	$ c.	$ c.	$ c.	$ c.
1920	172	432,618 62	270,596 52	828,027 27	91,704 24	8,513 47
1921	294	844,829 42	501,650 14	1,888,048 75	142,316 18	12,420 81
1922	312	774,336 84	374,158 51	1,832,200 75	87,936 37	23,573 06
1923	315	665,101 32	420,451 17	1,720,273 23	82,020 62	30,453 57
1924	320	725,631 40	334,348 63	1,861,036 56	95,758 21	12,727 08
1025	272	930,129 31	249,633 82	1,720,775 30	121,874 98	7,886 11
1926	295	1,379,063 62	282,968 54	2,154,503 96	188,804 36	33,251 25
1927	307	1,820,991 31	322,023 33	2,583,130 89	226,160 80	23,918 64
1928	324	2,153,376 26	259,421 34	2,690,025 09	272,743 58	17,539 10
1929	337	2,275,479 10	704,544 96	2,925,125 19	278,512 69	32,756 55
Totals		12,001,557 20	3,719,796 96	20,203,146 99	1,587,832 03	203,039 64

No. 11

1929

and Repair on County Roads

and ending December 31st, 1928

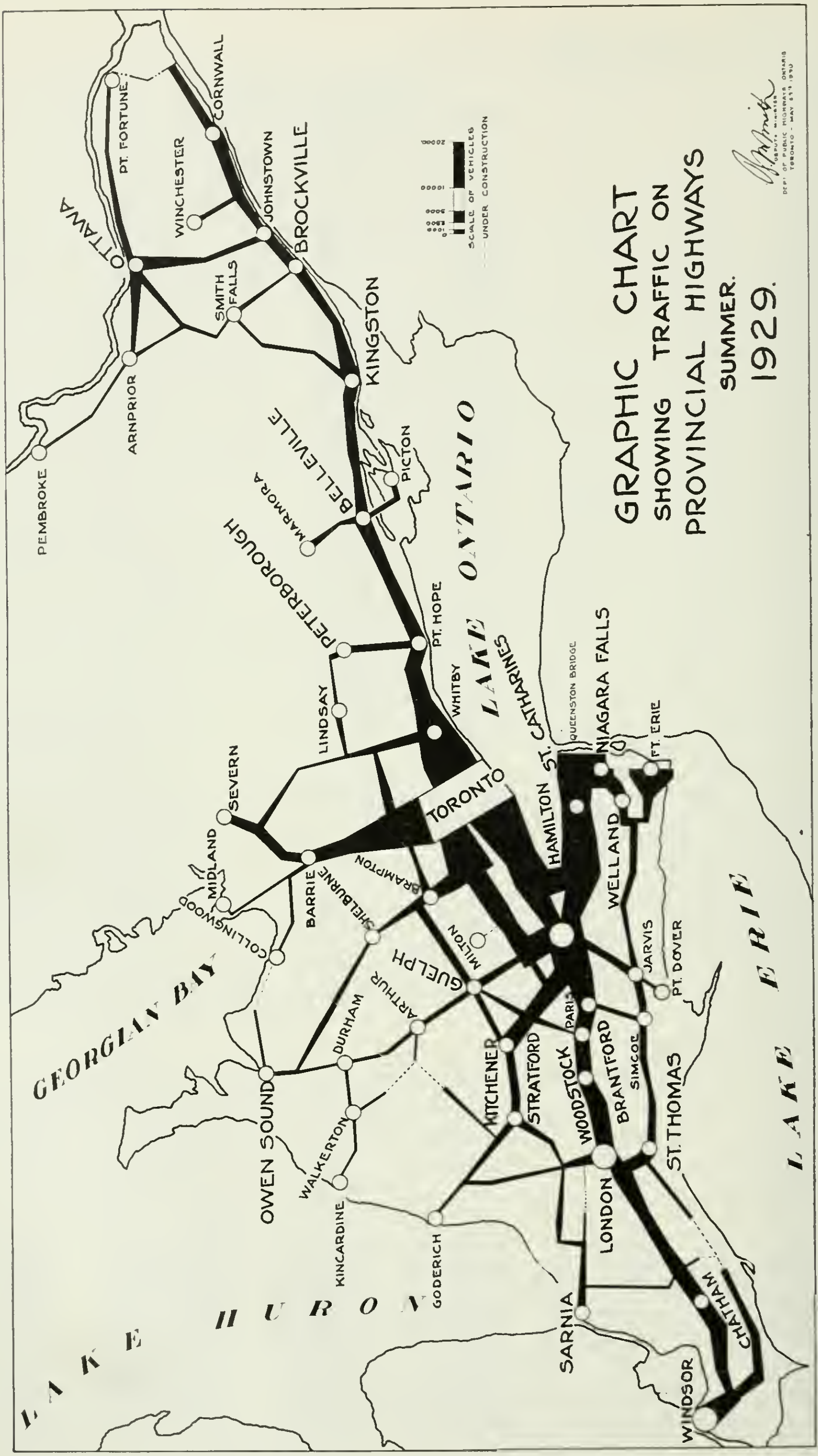
Bridges (Repairs only)	Re-surfacing	Oiling, etc.	Snow Roads	Wire Fence Bonus and Guard Rails	Urban Improvement	Total Expenditure	Government Grant, 50%
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
570 81	38,437 56	.	540 50	681 16	756 93	53,454 37	26,727 19
4,083 92	37,472 43	7,251 44	6,058 69	...	...	84,328 14	42,164 07
1,644 93	33,690 44	8,901 14	9,812 80	1,770 28	...	64,170 06	32,085 02
2,136 14	18,452 57	...	2,488 29	56 04	Included	30,474 32	15,198 58
377 17	58,183 66	...	692 98	...	167 90	80,730 61	40,365 30
779 38	31,654 71	3,588 98	3,865 39	...	11,264 60	78,399 72	39,199 86
23 20	20,800 55	34,103 48	130 38	323 84	...	58,634 86	29,317 43
2,220 65	69,541 99	2,936 69	2,283 28	302 83	...	91,708 25	45,854 12
156 46	104,241 46	...	8 75	...	...	122,452 11	61,226 05
371 71	16,311 92	538 12	96 35	347 00	2,266 62	24,748 68	12,374 34
543 79	58,178 28	5,806 12	1,981 62	...	...	90,008 59	45,004 29
3,496 74	64,020 49	8,774 57	7,043 66	1,228 03	...	120,215 03	60,107 51
7,131 07	45,499 38	...	1,267 25	1,388 42	4,984 76	87,629 69	43,814 84
661 95	58,830 34	1,841 62	34 70	40 55	5,725 07	106,585 06	53,292 54
3,052 78	23,567 45	6,605 31	583 28	...	...	61,371 66	30,685 83
876 09	23,909 56	4,610 54	65 00	373 12	...	34,388 51	17,194 26
471 08	35,771 94	9,340 00	393 62	...	...	46,663 29	23,331 64
691 48	35,703 92	14,582 37	543 44	229 26	1,065 53	62,413 75	31,206 87
2,876 79	82,629 75	1,218 91	8,461 83	...	...	123,474 58	61,737 29
545 90	90,700 39	1,508 86	297 00	77 99	...	108,772 35	54,386 17
4,537 37	14,513 82	498 99	791 89	61 98	...	33,592 77	16,796 38
984 22	31,894 21	898 03	2,275 99	512 40	...	47,311 12	23,655 56
874 22	45,259 35	679 18	2,832 27	3 36	1,442 33	66,386 71	33,193 35
1,914 51	21,332 01	6,824 88	132 30	109 93	...	38,269 02	19,134 51
165 07	1,112 62	...	1,561 27	388 73	...	11,878 04	5,939 02
3,501 74	33,755 37	59 95	1,578 31	239 30	...	53,981 36	26,991 68
261 75	29,314 50	53,622 65	2,597 36	...	...	93,823 99	46,912 00
217 27	5,487 07	28,258 95	571 40	642 00	...	36,216 37	18,108 19
263 43	10,063 52	14,203 32	683 69	...	...	31,866 13	15,933 06
313 52	46,090 78	68 36	1,586 44	539 78	...	78,598 19	39,299 09
3,704 81	32,557 36	55,587 44	1,103 64	...	...	109,437 36	54,718 68
1,802 45	23,472 55	12,320 45	4,556 68	942 71	...	52,722 62	26,361 31
2,587 21	17,857 98	495 64	2,708 62	422 42	...	32,188 21	16,094 11
103 26	17,739 24	33,692 31	394 60	...	...	59,227 51	29,613 75
4,344 82	65,697 48	4,902 61	7,275 61	4 47	...	111,105 13	55,552 56
185 73	34,126 72	21,609 02	3,566 35	356 08	...	81,109 97	40,554 99
908 00	8,118 39	54,929 77	7,399 40	...	...	92,898 23	46,449 12
59,381 42	1,385,991 76	400,259 70	88,264 63	11,041 68	27,673 74	2,561,236 36	1,280,580 56

No. 12

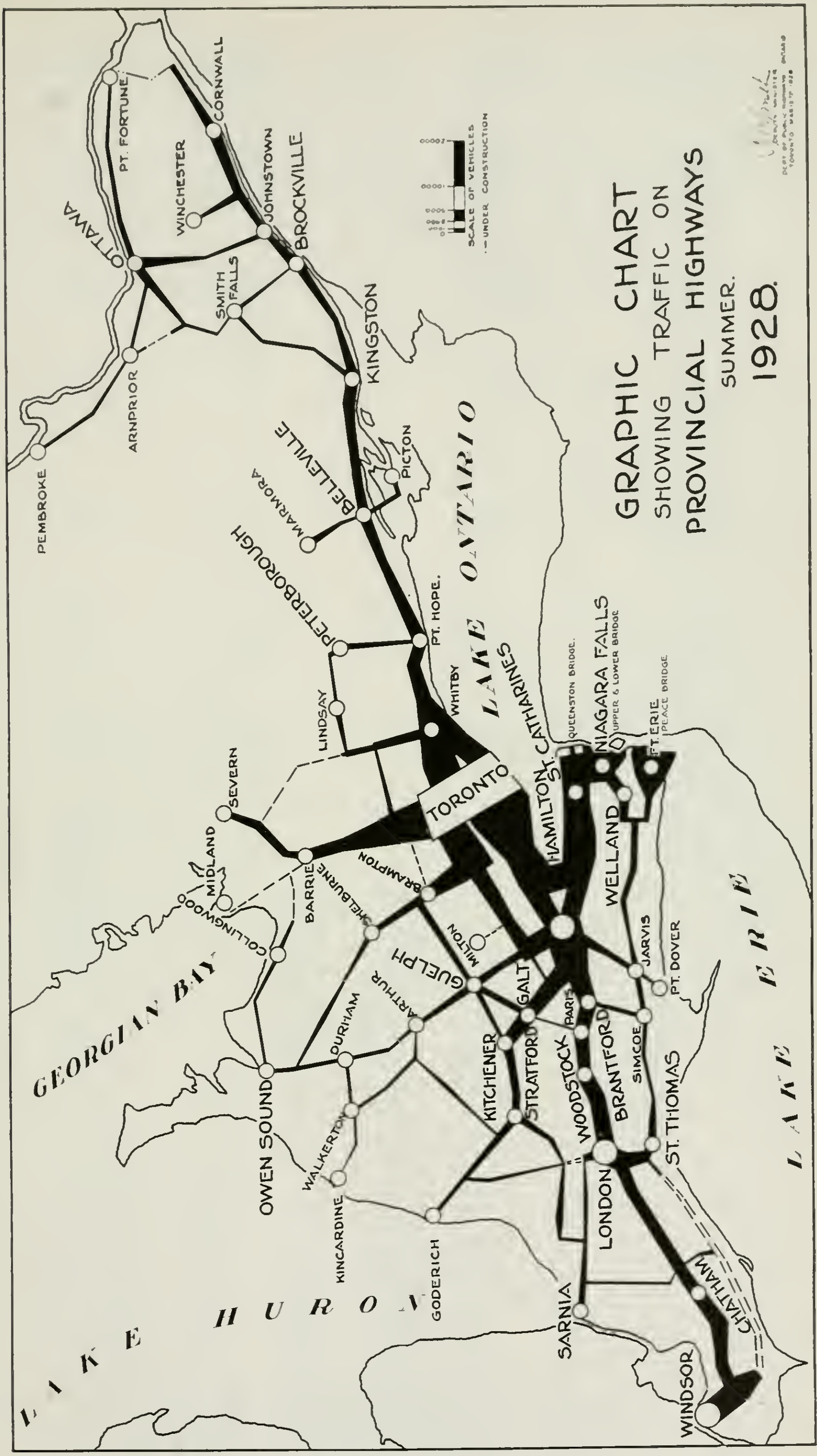
on Township Roads

Roads to the end of 1929, under the provisions of the Highway Improvement Act.

		Superintendence		Total Approved Expenditure	Total Government Grant
Approved Expenditure	Government Grant	Approved Expenditure	Government Grant		
$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
1,631,460 12	326,291 95	36,703 60	14,681 43	1,668,163 72	340,973 38
3,389,265 30	677,852 90	76,585 03	30,634 01	3,465,850 33	708,486 91
3,092,205 53	618,440 93	77,901 44	31,160 55	3,170,106 97	649,601 47
2,918,299 91	583,659 65	75,945 51	30,378 23	2,994,245 42	614,037 88
3,029,501 88	605,900 35	82,599 41	33,039 76	3,112,101 29	638,940 11
3,030,299 52	906,559 91	164,146 58	82,073 38	3,194,446 10	988,633 29
4,038,591 73	1,219,741 01	194,317 68	97,405 16	4,232,909 41	1,317,146 17
4,976,224 97	1,504,718 50	228,349 52	114,451 24	5,204,574 49	1,619,169 74
5,393,105 37	1,673,180 47	258,554 60	129,460 17	5,651,659 97	1,802,640 64
6,216,418 49	1,960,756 75	288,782 35	144,984 66	6,505,200 84	2,105,741 41
37,715,372 82	10,077,102 42	1,483,885 72	708,268 59	39,199,258 54	10,785,371 00



GRAPHIC CHART
SHOWING TRAFFIC ON
PROVINCIAL HIGHWAYS
SUMMER.
1929.



GRAPHIC CHART
SHOWING TRAFFIC ON
PROVINCIAL HIGHWAYS
SUMMER.
1928.

APPENDIX No. 13

SUMMER SUMMARY

TRAFFIC CENSUS

DAILY AVERAGE

Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
		Ontario	Foreign					
In 1928 There were 178 stations where traffic was counted, and the Average Daily for each station on each of the 26 Highways totalled		29,922	7,515	3,083	219	733	41,472	66,877
In 1929 There were 195 stations where traffic was counted and the Average Daily for each station on each of the 26 Highways totalled		35,044	10,264	3,748	306	575	49,937	83,865
In 1928 Average Daily at every station was		1,151	289	119	8	28	1,595	2,572
In 1929 Average Daily at every station was		1,298	380	139	11	21	1,849	3,169
Percentage Increase over previous year	1928	24%	17%	33%	20%	15%	22%	34%
(except in case of Horse-vehicles, where there is a decrease)	1929	13%	32%	17%	4%	33%	16%	23%

AVERAGE DAILY AVERAGE—FALL

Traffic Census

DAILY AVERAGE

Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
		Ontario	Foreign					
In 1928 There were 189 stations where traffic was counted and the Average Daily for each station on each of the 26 Highways totalled		24,528	2,510	3,264	174	766	31,242	53,874
In 1929 There were 194 stations where traffic was counted and the Average Daily for each station of the 28 Highways totalled		25,309	3,063	3,854	263	644	33,133	46,563
In 1928 Average Daily at every station was		876	90	117	6	27	1,116	1,924
In 1929 Average Daily at every station was		904	109	138	9	23	1,183	1,663
Percentage Increase or **Decrease** over previous year	1928	29% Increase	26% Increase	29% Increase	4% Decrease	20% Decrease	27% Increase	28% Increase
	1929	3% Increase	21% Increase	18% Increase	50% Increase	15% Decrease	6% Increase	14% Decrease

SUMMER TRAFFIC CENSUS AVERAGE

TRAFFIC CENSUS

DAILY AVERAGE

High-way No.	Name of Road	Number of Stations	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
				Ontario	Foreign					
2	Windsor to Quebec Boundary	38	1928	88,352	42,652	11,408	1,056	1,237	144,705	213,911
		40	1929	103,356	52,498	12,707	1,387	873	170,821	261,110
		1	1928	2,325	1,122	300	28	33	3,808	5,627
		1	1929	2,584	1,312	318	35	22	4,271	6,528
3	Windsor to Niagara Falls	15	1928	16,771	7,560	2,250	88	257	26,926	52,366
		20	1929	23,584	10,812	2,962	99	311	37,768	68,284
		1	1928	1,118	504	150	6	17	1,795	3,491
		1	1929	1,179	541	148	5	15	1,888	3,414
3A	Chambers Corners to Fort Erie	3	1928	1,800	5,985	340	38	39	8,202	11,281
		3	1929	2,771	9,620	337	41	58	12,827	19,566
		1	1928	600	1,995	113	13	13	2,734	3,760
		1	1929	924	3,206	112	14	20	4,276	6,522
4	St. Thomas to Clinton	5	1928	6,543	835	547	17	83	8,025	13,005
		6	1929	8,165	1,078	725	33	111	10,112	17,963
		1	1928	1,309	167	109	3	17	1,605	2,601
		1	1929	1,361	180	121	5	18	1,685	2,994
4A	Walkerton to Durham	1	1928	666	37	44	1	41	789	949
		1	1929	611	41	56	5	40	753	1,022
		1	1928	666	37	44	1	41	789	949
		1	1929	611	41	56	5	40	753	1,022
5	Toronto to Highway No. 8	6	1928	20,310	1,580	2,163	115	60	24,228	39,765
		6	1929	23,521	3,180	3,128	108	49	29,986	52,084
		1	1928	3,385	263	361	19	10	4,038	6,628
		1	1929	3,920	530	522	18	8	4,998	8,681
6	Port Dover to Owen Sound	11	1928	12,416	1,034	1,337	107	292	15,186	28,777
		11	1929	14,238	1,639	1,678	103	213	17,871	35,360
		1	1928	1,128	94	122	10	27	1,381	2,616
		1	1929	1,295	149	153	9	19	1,625	3,215
7	Sarnia to Peterborough	19	1928	13,044	1,926	1,286	85	405	16,746	28,512
		24	1929	21,652	2,586	2,300	182	372	27,092	51,523
		1	1928	687	101	68	5	21	882	1,501
		1	1929	902	108	96	7	16	1,129	2,147

AVERAGE DAILY AVERAGE—FALL

Traffic Census

DAILY AVERAGE

Highway No.	Name of Road	Number of Stations	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
				Ontario	Foreign					
2	Windsor to Quebec Boundary	35	1928	56,383	12,820	8,301	609	1,113	79,226	126,695
		39	1929	73,434	15,453	12,660	1,118	1,044	103,709	144,304
		1	1928	1,611	366	237	17	32	2,263	3,620
		1	1929	1,883	396	325	29	26	2,659	3,700
3	Windsor to Niagara Falls	18	1928	18,134	2,941	2,484	74	459	24,092	40,466
		20	1929	21,574	5,086	3,069	98	370	30,197	45,396
		1	1928	954	155	131	4	24	1,268	2,130
		1	1929	1,079	254	154	5	18	1,510	2,270
3A	Chambers' Corners to Fort Erie	3	1928	1,766	1,352	432	21	42	3,613	6,680
		3	1929	1,848	2,049	316	36	40	4,289	6,808
		1	1928	589	451	144	7	14	1,205	2,227
		1	1929	616	683	106	12	13	1,430	2,269
4	St. Thomas to Clinton	6	1928	7,612	253	618	36	117	8,636	13,862
		5	1929	4,983	305	598	13	78	5,977	9,164
		1	1928	1,269	42	103	6	19	1,439	2,310
		1	1929	997	61	120	3	15	1,196	1,833
4A	Walkerton to Durham	1	1928	508	8	26	1	36	579	775
		1	1929	611	8	64	4	33	720	983
		1	1928	508	8	26	1	36	579	775
		1	1929	611	8	64	4	33	720	983
5	Toronto to Highway No. 8	6	1928	22,088	1,296	2,684	97	44	26,209	50,913
		6	1929	18,904	686	2,576	82	51	22,299	36,252
		1	1928	3,681	216	448	16	7	4,368	8,485
		1	1929	3,151	114	429	14	9	3,717	6,042
6	Port Dover to Owen Sound	11	1928	10,483	323	1,449	99	278	12,632	21,695
		11	1929	11,327	376	1,863	93	274	13,933	20,607
		1	1928	953	29	132	9	25	1,148	1,972
		1	1929	1,030	34	170	8	25	1,267	1,873
7	Sarnia to Peterborough	20	1928	14,559	1,055	2,026	136	469	18,245	35,298
		22	1929	17,037	1,081	2,486	123	371	21,098	32,252
		1	1928	728	53	101	7	23	912	1,765
		1	1929	774	49	113	6	17	959	1,466

AVERAGE DAILY AVERAGE—SUMMER

Traffic Census

Highway No.	Name of Road	Number of Stations	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
				Ontario	Foreign					
8	Niagara Falls to Goderich	11	1928	27,871	16,350	3,889	673	269	49,052	77,798
		12	1929	33,639	19,877	4,547	677	233	58,973	98,737
		1	1928	2,496	1,485	351	61	23	4,416	6,997
		1	1929	2,803	1,657	379	57	19	4,915	8,228
8A	Burlington Beach Road	2	1928	7,259	966	576	13	34	8,848	12,805
		2	1929	8,544	1,464	778	150	22	10,958	15,473
		1	1928	3,629	483	288	7	17	4,424	6,403
		1	1929	4,272	732	389	75	11	5,479	7,736
9	Arthur to Kincardine	4	1928	1,367	91	127	1	94	1,680	2,771
		3	1929	1,073	68	133	8	60	1,342	2,324
		1	1928	342	23	32	....	23	420	693
		1	1929	358	23	44	3	20	448	775
10	Port Credit to Chatsworth	6	1928	7,277	170	912	62	130	8,551	14,625
		6	1929	8,391	369	985	45	144	9,934	16,859
		1	1928	1,213	28	152	10	22	1,425	2,438
		1	1929	1,399	62	164	7	24	1,656	2,810
11	Toronto to Severn	7	1928	21,660	2,094	1,406	59	85	25,304	46,908
		7	1929	26,558	2,875	1,783	122	78	31,416	62,936
		1	1928	3,094	299	201	9	12	3,615	6,701
		1	1929	3,794	411	255	17	11	4,488	8,991
12	Whitby to Orillia	3	1928	3,065	189	207	15	47	3,523	7,391
		5	1929	5,691	332	409	15	95	6,542	14,351
		1	1928	1,021	63	69	5	16	1,174	2,464
		1	1929	1,138	66	82	3	19	1,308	2,870
14	Picton to Marmora	5	1928	3,421	236	394	35	238	4,324	5,821
		5	1929	4,699	189	524	26	176	5,614	9,122
		1	1928	684	47	79	7	48	865	1,164
		1	1929	940	38	105	5	35	1,123	1,824
15	Kingston to Ottawa	6	1928	3,707	357	292	24	237	4,617	7,120
		6	1929	4,229	509	411	14	181	5,344	8,441
		1	1928	618	59	49	4	39	769	1,185
		1	1929	705	85	69	2	30	891	1,407

AVERAGE DAILY AVERAGE—FALL

Traffic Census

DAILY AVERAGE

Highway No.	Name of Road	Number of Stations	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
				Ontario	Foreign					
8	Niagara Falls to Goderich	12	1928	23,806	7,161	4,203	594	281	36,045	58,790
		12	1929	25,543	7,512	4,528	603	253	38,439	58,058
		1	1928	1,984	597	350	50	23	3,004	4,897
		1	1929	2,129	626	377	50	21	3,203	4,838
8A	Burlington Beach	2	1928	3,389	152	575	13	17	4,146	5,850
		2	1929	3,655	483	699	119	17	4,973	9,200
		1	1928	1,694	76	287	7	9	2,073	2,925
		1	1929	1,828	242	349	60	8	2,487	4,600
9	Arthur to Kincardine	4	1928	1,244	21	139	......	77	1,481	2,700
		3	1929	974	21	112	......	65	1,172	1,550
		1	1928	311	5	35	......	19	370	675
		1	1929	325	7	37	......	22	391	517
10	Port Credit to Chatsworth	6	1928	5,919	160	1,004	39	156	7,278	12,909
		6	1929	6,949	80	1,091	35	159	8,314	13,157
		1	1928	1,479	40	251	10	39	1,819	3,182
		1	1929	1,158	13	182	6	27	1,386	2,193
11	Toronto to Severn	7	1928	14,153	298	1,454	64	106	16,075	33,671
		7	1929	13,340	293	1,716	76	97	15,522	24,173
		1	1928	2,022	43	208	9	15	2,297	4,810
		1	1929	1,906	42	244	11	14	2,217	3,453
12	Whitby to Orillia	5	1928	3,143	33	343	13	113	3,645	7,426
		5	1929	3,349	44	401	25	120	3,939	7,179
		1	1928	629	7	69	2	22	729	1,485
		1	1929	670	9	80	5	24	788	1,436
14	Picton to Marmora	5	1928	4,130	39	535	33	316	5,053	7,041
		5	1929	3,791	39	678	74	190	4,772	5,443
		1	1928	826	8	107	6	63	1,010	1,408
		1	1929	758	8	136	15	38	955	1,089
15	Kingston to Ottawa	6	1928	2,977	134	265	17	183	3,576	6,656
		6	1929	3,290	166	520	7	138	4,121	5,760
		1	1928	496	22	44	3	31	596	1,109
		1	1929	548	28	87	1	23	687	960

AVERAGE DAILY AVERAGE—SUMMER

Traffic Census

High-way No.	Name of Road	Number of Stations	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
				Ontario	Foreign					
16	Johnstown to Ottawa	3	1928	3,200	629	244	21	49	4,143	5,468
		3	1929	4,199	883	241	27	42	5,392	8,045
		1	1928	1,067	210	81	7	16	1,381	1,822
		1	1929	1,400	294	80	9	14	1,797	2,682
17	Pembroke to Point Fortune	10	1928	5,806	1,085	538	27	428	7,884	11,073
		10	1929	7,241	1,502	674	48	336	9,801	14,404
		1	1928	580	108	54	3	43	788	1,107
		1	1929	724	150	67	5	34	980	1,440
21	Morpeth to Highway No. 7	3	1928	868	67	92	9	42	1,078	1,861
		3	1929	1,031	126	132	7	45	1,341	2,445
		1	1928	289	22	31	3	14	359	620
		1	1929	344	42	44	2	15	447	815
22	London to Highway No. 9	2	1928	567	59	77	3	28	734	1,236
		2	1929	640	392	69	3	12	1,116	1,783
		1	1928	283	30	38	2	14	367	618
		1	1929	320	196	34	2	6	558	892
23	Mitchell to Teviotdale	3	1928	1,247	48	102	1	93	1,491	3,336
		2	1929	1,049	44	137	8	62	1,300	2,232
		1	1928	416	16	34	....	31	497	1,112
		1	1929	525	22	68	4	31	650	1,116
24	Simcoe to Guelph	4	1928	2,795	140	343	10	75	3,363	5,832
		5	1929	3,709	185	447	11	64	4,416	8,197
		1	1928	699	35	85	3	19	841	1,458
		1	1929	742	37	89	2	13	883	1,640
25	Palmero to Milton	..	1928	Under construction						
		..	1929	"	"					
26	Barrie to Owen Sound	3	1928	1,494	60	74	11	55	1,694	2,962
		3	1929	1,423	84	124	12	42	1,685	3,582
		1	1928	498	20	25	4	18	565	987
		1	1929	475	28	41	4	14	562	1,194
27	Barrie to Midland and Penetang	..	1928	Under construction						
		1	1929	224	11	20	...	3	258	539
28	Port Hope to Peterborough	2	1928	1,391	220	206	4	47	1,868	3,123
		2	1929	2,177	444	214	9	25	2,870	4,734
		1	1928	696	110	103	2	23	934	1,561
		1	1929	1,089	222	107	5	12	1,435	2,367

AVERAGE DAILY AVERAGE—FALL

Traffic Census

DAILY AVERAGE

Highway No.	Name of Road	Number of Stations	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
				Ontario	Foreign					
16	Johnstown to Ottawa....................	3	1928	2,358	385	264	15	110	3.122	4,962
		3	1929	2,462	433	228	20	38	3.181	5,089
		1	1928	786	128	88	5	37	1,044	1,654
		1	1929	821	144	76	6	13	1,060	1,696
17	Pembroke to Point Fortune...............	10	1928	4,275	639	543	19	402	5,878	9,996
		10	1929	5,231	730	728	29	344	7,062	10 142
		1	1928	428	64	54	2	40	588	999
		1	1929	323	73	73	3	34	706	1.014
21	Morpeth to Highway No. 7...............	4	1928	1,611	72	160	9	117	1,969	3,059
		4	1929	1,960	91	200	11	92	2,354	3,306
		1	1928	403	18	40	2	29	492	765
		1	1929	490	23	50	3	23	589	827
22	London to Highway No. 7, via Strathroy...	3	1928	973	247	139	2	53	1,414	2,223
		2	1929	804	188	121	8	28	1,149	1,791
		1	1928	324	82	46	1	18	471	741
		1	1929	402	94	61	4	14	575	895
23	Mitchell to Teviotdale....................	3	1928	872	16	150	......	83	1,121	1,547
		2	1929	817	18	93	......	64	992	1,212
		1	1928	291	5	50	......	27	373	516
		1	1929	409	9	46	......	32	496	606
24	Simcoe to Guelph, via Brantford..........	5	1928	2,831	61	386	9	105	3,392	5.384
		5	1929	2,970	58	450	13	80	3,571	4,881
		1	1928	566	12	77	2	21	678	1,077
		1	1929	594	12	90	2	16	714	976
25	Palermo to Milton.......................	1	1928	Under construction						
		1	1929	385	5	148	8	9	555	602
		1	1928	Under construction						
		1	1929	385	5	148	8	9	555	602
26	Barrie to Owen Sound....................	4	1928	1,570	17	124	......	83	1,794	2,586
		4	1929	1,589	17	271	......	118	1,995	2,427
		1	1928	393	4	31	......	21	449	647
		1	1929	397	4	68	......	30	499	607

AVERAGE DAILY AVERAGE—SUMMER

Traffic Census

Highway No.	Name of Road	Number of Stations	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
				Ontario	Foreign					
29	Brockville to Arnprior	4	1928	1,341	173	170	14	193	1,891	2,406
		5	1929	1,934	242	477	13	163	2,829	3,868
		1	1928	335	43	43	4	48	473	601
		1	1929	387	48	95	3	33	566	774
31	Morrisburg North	2	1928	1,488	303	202	6	256	2,255	3,547
		2	1929	1,257	147	179	6	147	1,736	2,483
		1	1928	744	151	101	3	128	1,127	1,778
		1	1929	629	73	90	3	73	868	1,242

In 1928, the count was taken from July 11th to 17th. Weather 4 days fine.
In 1929, the count was taken from July 10th to 16th. Weather 3 days fine.

AVERAGE DAILY AVERAGE—FALL

Traffic Census

DAILY AVERAGE

High-way No.	Name of Road	Number of Stations	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
				Ontario	Foreign					
27	Barrie to Midland and Penetanguishene....	1	1928	123	1	19	......	4	147	213
		1	1929	151	3	14	......	8	176	206
		1	1928	123	1	19	......	4	147	213
		1	1929	151	3	14	......	8	176	206
28	Port Hope to Peterborough...............	2	1928	1,458	34	179	5	54	1,730	3,648
		2	1929	1,611	49	251	5	46	1,962	3,114
		1	1928	729	17	90	2	27	865	1,824
		1	1929	806	25	125	2	23	981	1,557
29	Brockville to Arnprior....................	4	1928	1,003	78	169	13	172	1,435	2,603
		5	1929	1,617	124	197	13	183	2,134	2,870
		1	1928	251	20	42	3	43	359	651
		1	1929	323	25	39	3	37	427	574
31	Morrisburg North........................	2	1928	999	82	108	6	196	1,391	2,019
		2	1929	1,089	143	183	7	144	1,566	1,867
		1	1028	500	41	54	3	98	696	1,010
		1	1929	545	72	91	3	72	783	934

In 1928, the count was taken from October 10th to 16th. Weather 6 days fine.
In 1929, the count was taken from October 9th to 15th. Weather 6 days fine.

Highway No. 2

WINDSOR-QUEBEC BOUNDARY HIGHWAY

Traffic Census—Summer

Daily Average

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	South of Windsor at Howard Ave.	1928	2,698	2,391	400	20	7	5,516	10,544
		1929	2,457	2,526	326	22	8	5,339	9,294
2	Maidstone, Traffic East and West of	1928	994	1,593	182	15	6	2,790	4,699
	Maidstone, Traffic West of	1929	1,536	1,407	209	10	5	3,167	6,801
2a	Maidstone, Traffic East of	1929	567	1,005	125	9	2	1,708	2,627
3	Woodslee	1928	976	1,588	171	14	13	2,762	4,618
		1929	1,080	1,681	196	14	8	2,979	5,108
4	East of Tilbury	1928	1,457	1,938	185	14	12	3,606	5,902
		1929	1,501	2,224	229	14	10	3,978	6,398
5	East of Chatham at Tupperville Road	1928	1,235	1,298	163	14	8	2,718	4,070
		1929	1,219	1,697	164	15	5	3,100	4,765
5½	Thamesville Subway	1929	1,299	1,786	289	12	8	3,394	4,929
6	Wardsville	1928	986	1,401	139	9	13	2,548	3,970
		1929	1,084	1,525	179	9	8	2,805	4,366
7	Christina	1928	966	1,250	139	8	10	2,373	3,709
		1929	1,023	1,449	183	8	7	2,670	4,060
8	Lambeth	1928	2,515	1,883	318	16	22	4,754	6,942
	Lambeth, Traffic West of	1929	1,561	2,297	257	17	4	4,136	5,732
	Lambeth, Traffic East of	1929	2,380	428	190	1	9	3,008	5,862
9	East of London at Wyton Road	1928	1,859	1,398	280	16	6	3,559	5,481
		1929	1,983	1,624	282	17	5	3,911	5,827
10	Thamesford Corner	1928	1,779	1,385	292	15	67	3,538	5,072
		1929	1,889	1,589	311	16	55	3,860	5,374
11	Beachville	1928	1,882	1,373	349	32	53	3,689	5,150
		1929	2,387	1,375	430	36	37	4,265	5,538
12	Eastwood Corners	1928	1,338	1,295	205	9	14	2,861	4,174
		1929	1,439	1,466	210	10	8	3,133	4,681
13	Concessions I and II, Brantford Township	1928	1,784	1,244	236	8	7	3,279	4,621
		1929	1,908	1,470	205	28	5	3,616	5,259
14	Cainsville	1928	2,362	1,386	365	21	22	4,156	6,803
		1929	2,667	1,519	382	44	22	4,634	7,125

WINDSOR-QUEBEC BOUNDARY HIGHWAY

Highway No. 2

Traffic Census—Fall

Daily Average

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum One Day
			Ontario	Foreign					
1	South of Windsor at Howard Ave.	1928	1,920	866	271	16	4	2,077	5,934
		1929	1,614	736	167	18	4	2,539	4,495
2	Maidstone (traffic east and west of)	1928	964	883	177	14	14	2,083	3,731
	Maidstone (traffic west of)	1929	902	522	113	11	7	1,555	3,507
	Maidstone (traffic east of)	1929	479	381	80	8	5	953	1,334
3	Woodslee	1928	893	752	304	12	37	1,998	3,250
		1929	698	617	148	16	10	1,489	2,364
4	East of Tilbury	1928	939	627	164	13	22	1,765	2,946
		1929	956	689	177	14	10	1,846	2,919
5	North of Chatham at Tupperville Road	1928	1,057	610	183	14	12	1,876	2,786
	..	1929	1,206	580	295	14	6	2,101	2,722
5½	Thamesville Subway	1929	1,148	759	292	12	20	2,231	2,750
6	Wardsville	1928	929	510	142	8	29	1,618	2,393
		1929	883	452	139	9	20	1,503	2,145
7	Christina	1928	874	474	125	8	6	1,487	2,260
		1929	925	430	147	8	5	1,515	2,043
8	Lambeth (traffic east and west of)	1928	3,170	543	371	15	19	4,118	6,234
	Lambeth (traffic west of)	1929	1,721	537	257	16	7	2,538	3,423
	Lambeth (traffic east of)	1929	1,860	231	232	8	7	2,338	3,389
9	North of London at Wyton	1928	1,885	541	281	14	4	2,725	3,880
		1929	1,730	504	295	11	14	2,554	3,677
10	Thamesford Corner	1928	1,769	482	254	14	71	2,590	3,622
		1929	1,506	452	279	10	51	2,298	3,117
11	Beachville	1928	1,862	447	307	33	39	2,688	3,838
		1929	1,860	436	332	28	32	2,688	3,599
12	Eastwood	1928	1,278	448	192	8	13	1,939	3,065
		1929	1,260	459	192	4	8	1,923	2,791
13	Concessions I and II, Brantford Township	1928	1,566	463	210	8	7	2,254	3,560
		1929	1,695	426	222	32	3	2,378	3,361
14	Cainsville	1928	2,073	475	342	22	43	2,955	4,980
		1929	2,215	472	387	52	43	3,169	4,934

WINDSOR-QUEBEC BOUNDARY HIGHWAY

Traffic Census—Summer

Highway No. 2

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
15	Binkley's Corners	1928	2,490	1,463	427	21	22	4,423	5,778
		1929	3,406	1,579	467	39	11	5,502	7,552
16	Burlington	1928	5,110	1,670	943	73	11	7,807	11,850
		1929	5,333	1,726	897	124	6	8,086	11,863
17	Oakville	1928	4,436	1,554	794	69	11	6,864	9,221
		1929	4,563	1,566	711	79	11	6,930	9,883
18	Long Branch	1928	9,401	2,973	1,284	242	55	13,955	17,533
		1929	8,075	1,934	1,096	96	36	11,237	15,624
19	Junction of Markham Road	1928	5,861	399	682	142	59	7,143	11,550
		1929	9,520	505	856	234	68	11,183	22,634
20	Junction of Old Kingston Road	1928	10,050	1,100	924	68	100	12,242	20,082
		1929	8,903	1,342	973	121	28	11,367	18,787
21	Westhill	1928	6,264	978	695	62	6	8,005	14,025
		1929	7,288	1,152	823	111	7	9,381	17,201
22	Courtice Corners	1928	2,436	738	203	33	8	3,418	5,719
		1929	2,984	1,034	286	50	8	4,362	6,897
23	Welcome Corners	1928	1,803	715	171	12	29	2,730	4,474
		1929	2,146	1,105	203	21	23	3,498	5,236
24	East of Brighton	1928	1,171	668	100	11	17	1,967	2,691
		1929	1,638	825	165	13	37	2,678	3,601
24½	Trenton Overhead	1929	1,696	961	134	17	15	2,823	3,765
25	East of Trenton at C.P.R. crossing	1928	1,817	547	140	15	14	2,533	3,301
		1929	2,103	1,155	196	25	8	3,487	3,777
26	East of Belleville at Point Anne Road	1928	1,258	654	106	7	17	2,042	2,966
		1929	1,660	816	133	14	6	2,629	3,269
27	Marysville	1928	915	593	78	4	12	1,602	2,188
		1929	806	918	69	14	7	1,814	2,687
27½	Between Lots 20, 21, North Fredericksburg Twp.	1928	1,210	680	181	7	58	2,136	2,784
		1929	1,393	832	145	13	34	2,417	3,076
28	Four miles West of Odessa at Fellowes Corner	1928	1,131	882	72	5	4	2,094	2,842
		1929	1,011	772	85	13	6	1,887	2,624

WINDSOR-QUEBEC BOUNDARY HIGHWAY

Highway No. 2

Traffic Census—Fall

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
15	Binkley's Corners	1928	2,474	405	436	14	30	3,359	5,214
		1929	3,162	645	685	40	12	4,544	5,914
16	Burlington	1928	Under construction						
		1929	4,204	617	1,070	109	5	6,005	8,127
17	Oakville	1928	Under construction						
		1929	3,819	511	920	60	7	5,317	6,122
18	Long Branch	1928	Under construction						
		1929	6,284	396	1,457	79	43	8,259	10,331
19	Junction of Markham Road	1928	6,962	204	1,046	133	60	8,405	14,263
		1929	5,262	65	684	178	67	6,256	8,440
20	Junction of Old Kingston Road	1928	5,222	263	767	57	34	6,343	11,438
		1929	3,815	132	515	69	21	4,552	8,655
21	West Hill	1928	4,105	281	615	59	5	5,065	9,921
		1929	4,203	253	684	67	3	5,210	9,109
22	Courtice Corners	1928	2,014	178	241	32	12	2,477	4,466
		1929	2,261	250	299	39	8	2,857	4,419
23	Welcome Corners	1928	1,362	200	146	11	29	1,748	3,076
		1929	1,456	255	217	14	24	1,966	3,115
24	East of Brighton	1928	1,048	238	150	9	47	1,492	2,327
		1929	1,279	187	220	12	39	1,737	2,249
25	East of Trenton at C.P.R. crossing	1928	1,442	171	137	13	19	1,782	1,863
		1929	1,530	232	204	19	17	2,002	2,301
26	East of Belleville at Point Anne Road	1928	1,136	178	109	8	13	1,444	2,209
		1929	1,278	196	166	17	9	1,666	2,218
27	Marysville	1928	670	209	71	4	7	961	1,507
		1929	692	244	81	12	24	1,053	1,488
27½	Between Lots 20, 21, North Fredericksburg	1928	1,019	197	247	4	30	1,497	2,023
		1929	1,306	199	117	13	30	1,665	2,217
28	Four miles north of Odessa	1928	712	179	72	4	5	972	1,386
		1929	915	200	93	13	8	1,229	1,678

Highway No. 2

WINDSOR-QUEBEC BOUNDARY HIGHWAY

Traffic Census—Summer

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
29	Cataraqui	1928	1,743	632	186	11	62	2,634	3,263
		1929	1,800	851	200	16	29	2,896	3,945
30	Barriefield	1928	1,397	670	121	12	19	2,219	2,732
		1929	3,080	997	240	18	31	4,366	5,905
31	Escott	1928	556	523	44	4	55	1,182	1,480
		1929	727	716	52	11	53	1,559	2,079
32	West of Brockville at Lynn Road	1928	1,274	629	113	13	40	2,069	2,549
		1929	1,486	827	148	15	27	2,503	3,234
33	East of Brockville, 2 miles	1928	1,140	621	115	11	24	1,911	2,620
		1929	1,536	822	137	15	25	2,535	3,589
34	Johnstown Corner	1928	698	517	50	7	9	1,281	2,010
		1929	781	670	51	11	10	1,523	2,075
35	Morrisburg	1928	1,225	676	203	7	137	2,248	3,333
		1929	1,493	781	221	15	109	2,609	3,245
36	West limits of Cornwall	1928	1,574	669	291	7	153	2,694	2,924
		1929	1,482	795	170	13	28	2,488	3,139
37	Lancaster	1928	561	678	61	2	55	1,357	2,241
		1929	628	859	115	7	49	1,658	2,115

WINDSOR-QUEBEC BOUNDARY HIGHWAY

Highway No. 2

Traffic Census—Fall

Daily Average

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
29	Cataraqui Corner	1928	1,297	211	155	7	45	1,715	2,383
		1929	1,691	206	208	15	43	2,163	2,876
30	Barriefield	1928	894	218	104	12	18	1,246	1,916
		1929	1,390	357	325	19	21	2,112	2,525
	Escott	1928	421	162	51	4	46	684	642
		1929	579	190	58	7	36	870	1,078
32	West of Brockville at Lynn Road	1928	697	203	55	13	17	985	1,668
		1929	899	219	80	12	20	1,230	1,733
33	East of Brockville, 2 miles	1928	712	211	211	9	40	1,183	1,598
		1929	904	308	160	18	38	1,428	1,781
34	Johnstown Corner	1928	603	205	48	4	14	874	1,432
		1929	552	227	58	8	9	854	1,260
35	Morrisburg	1928	960	246	85	5	105	1,401	1,831
		1929	1,256	294	194	14	105	1,863	2,166
36	West limits of Cornwall	1928	1,053	267	183	7	153	1,663	1,880
		1929	1,594	294	321	10	170	2,389	2,828
37	Lancaster	1928	401	273	49	1	33	757	1,280
		1929	445	293	90	3	33	864	1,104

WINDSOR-NIAGARA FALLS HIGHWAY

Highway No. 3

Traffic Census—Summer

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
	South of Windsor at Howard Ave.	1928	2,698	2,391	400	20	7	5,516	10,544
		1929	2,457	2,526	326	22	8	5,339	9,294
1	Maidstone	1928	2,774	2,455	370	15	15	5,629	11,120
		1929	1,347	797	133	1	3	2,281	4,204
2	North of Cottam	1928	1,292	647	188	....	15	2,142	5,464
		1929	1,721	1,073	249	2	9	3,054	7,268
3	Cedar Springs	1928	Under con	struction					
		1929	833	294	125	5	7	1,264	2,223
3½	Blenheim Crossing	1929	1,008	328	107	5	29	1,477	2,038
4	Morpeth	1928	Under con	struction					
		1929	"	"					
5	Wallacetown	1928	"	"					
		1929	526	222	53	....	15	816	1,524
6	Talbotville, Traffic West of	1928	591	62	64	....	8	725	1,176
		1929	614	193	68	1	9	885	1,330
6a	Talbotville, Traffic East of	1929	471	171	53	....	7	702	1,033
6½	M.C.R. Viaduct, West limits of St. Thomas	1929	2,938	442	271	1	23	3,675	6,118
7	New Sarum	1928	1,100	98	79	....	14	1,291	2,358
		1929	1,300	320	113	....	11	1,744	2,983

Highway No. 3

WINDSOR-NIAGARA FALLS HIGHWAY

Traffic Census—Fall

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
	South of Windsor at Howard Ave.	1928	1,920	866	271	16	4	3,077	5,934
	Incompetent observers	1929	1,614	736	167	18	4	2,539	4,495
1	Maidstone	1928	1,807	592	272	2	55	2,728	4,104
		1929	1,197	382	166	1	10	1,756	2,311
2	North of Cottam	1928	928	281	189	......	13	1,411	2,495
		1929	965	415	231	1	13	1,625	2,757
3	Cedar Springs	1928	659	64	136	4	15	878	1,304
		1929	676	208	103	4	13	1,004	1,411
3½	Blenheim Crossing	1928	Not	taken					
		1929	1,013	255	158	5	75	1,506	1,879
4	Morpeth	1928	623	85	119	3	23	853	1,039
		1929	648	292	77	7	19	1,043	1,364
5	Wallacetown	1928	505	41	41	......	25	612	1,044
		1929	596	164	59	......	20	839	1,278
6	Talbotville, traffic west of	1928	678	38	59	......	20	795	1,222
	Not taken correctly	1929	613	99	67	......	13	792	988
6a	Talbotville, traffic east of	1928	1,415	93	123	1	21	1,653	2,618
	Not taken correctly	1929	496	97	53	......	9	655	864
6½	West limits of St. Thomas at junction of Road to Fingal (see note)	1928	2,154	88	153	......	58	2,453	3,713
		1929	1,974	122	219	1	15	2,331	2,444
7	New Sarum	1928	1,174	66	91	......	14	1,345	2,251
		1929	1,175	149	116	......	10	1,450	2,214

NOTE: At west limits of St. Thomas at junction of Road to Fingal.—Road was closed for last 4 days of count owing to construction work. This is the average for the first 3 days.

WINDSOR-NIAGARA FALLS HIGHWAY

Highway No. 3

Traffic Census—Summer

Daily Average

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
8	Junction of Bayham Road	1928	348	78	46	4	13	489	818
		1929	517	316	75	....	7	915	1,675
9	Courtland	1928	495	27	92	7	29	650	930
		1929	870	313	135	8	22	1,348	2,113
10	Renton	1928	597	109	87	5	14	812	1,357
		1929	765	339	100	4	20	1,228	2,045
11	Jarvis	1928	984	130	150	5	56	1,325	1,793
		1929	1,180	390	179	4	52	1,805	2,640
12	Nelles Corners	1928	410	112	40	....	10	572	1,048
		1929	455	333	65	....	11	864	1,424
13	Canboro Corners	1928	535	148	59	7	11	760	1,534
		1929	661	338	80	5	10	1,094	2,194
14	Junction of Forks Road, Lots 39, 40, Wainfleet Township	1928	816	281	90	5	23	1,215	2,310
		1929	773	538	87	5	14	1,417	2,979
15	Chambers Corners	1928	740	249	91	7	8	1,095	2,460
		1929	894	527	83	5	27	1,536	3,310
16	Junction of St. Catharines Road	1928	1,764	332	256	3	6	2,361	4,991
		1929	2,425	670	385	21	9	3,510	7,268
17	Junction of Montrose Road	1928	1,627	441	238	10	28	2,344	4,463
		1929	1,829	682	275	10	18	2,814	4,621

Highway No. 3

WINDSOR-NIAGARA FALLS HIGHWAY

Traffic Census—Fall

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
8	Bayham Road	1928	455	61	46	......	17	579	1,136
		1929	540	159	74	......	6	779	1,279
9	Courtland	1928	729	51	101	12	30	923	1,414
		1929	825	163	141	11	26	1,166	1,602
10	Renton	1928	650	56	86	8	16	816	1,197
		1929	746	170	93	9	15	1,033	1,436
11	Jarvis	1928	979	30	169	8	50	1,236	1,646
		1929	1,073	136	171	9	47	1,436	1,662
12	Nelles Corners	1928	420	66	46	......	19	551	869
		1929	400	174	65	......	20	659	934
13	Canboro Corners	1928	521	86	61	6	15	689	1,326
		1929	580	171	78	5	12	846	1,272
14	Junction of Forks Road, Lots 39, 40 Wainfleet Twp.	1928	562	119	57	4	9	751	1,655
		1929	586	268	99	5	16	974	1,717
15	Chambers Corners	1928	693	100	83	4	9	889	1,959
		1929	566	246	122	4	6	944	1,653
16	At Fonthill Road	1928	1,337	98	292	......	27	1,754	3,597
		1929	3,814	352	567	8	5	4,746	8,693
17	At Montrose Road	1928	1,340	153	212	7	40	1,752	2,561
		1929	1,477	328	243	10	16	2,074	3,143

CHAMBERS CORNERS-FORT ERIE HIGHWAY

Highway No. 3a

Traffic Census—Summer

Daily Average

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Chambers Corners	1928	398	117	53	2	4	574	1,215
		1929	556	359	48	....	25	988	2,265
2	At Lot 1, Concession 1, Wainfleet Township	1928	734	328	132	1	24	1,219	1,977
		1929	1,118	874	141	....	27	2,160	4,081
3	At Ridgeway Road	1928	668	5,540	155	35	11	6,409	8,089
		1929	1,097	8,387	148	41	6	9,679	13,220

CHAMBERS CORNERS-FORT ERIE HIGHWAY

Highway No. 3a

Traffic Census—Fall

Daily Average

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Chambers Corners	1928	414	59	37	......	6	516	1,359
		1929	333	169	86	......	3	591	1,034
2	Lot 1, Con. 1, Wainfleet Township	1928	632	166	87	......	27	912	1,813
		1929	619	237	93	......	30	979	1,682
3	At Ridgeway Road	1928	720	1,127	308	21	9	2,185	3,508
		1929	896	1,643	137	36	7	2,719	4,092

Highway No. 4

ST. THOMAS-CLINTON HIGHWAY

Traffic Census—Summer

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Talbotville	1928	1,907	253	147	....	15	2,322	4,033
		1929	1,780	353	144	1	10	2,288	4,249
2	Lambeth	1928	2,504	423	181	3	13	3,124	4,933
		1929	2,380	428	190	1	9	3,008	5,862
3	North of London	1928	1,442	108	151	12	18	1,731	2,770
		1929	1,761	133	184	15	10	2,103	3,261
4a	Elginfield (London traffic)	1928	Under construction						
		1929	891	93	71	11	3	1,069	1,881
4b	Elginfield (Clinton traffic)	1928	209	19	14	2	9	253	476
		1929	590	27	51	2	6	676	1,238
5	Brucefield	1928	481	32	54	....	28	595	793
		1929	763	44	85	3	73	968	1,472

ST. THOMAS-CLINTON HIGHWAY

Highway No. 4

Traffic Census—Fall

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Talbotville	1928	1,150	75	101	......	15	1,341	2,321
		1929	1,080	116	130	....	14	1,340	1,783
2	Lambeth	1928	1,513	82	158	......	11	1,764	2,697
		1929	1,299	82	155	......	7	1,543	1,803
3	North of London at Cons. 4 and 5, London Township	1928	2,676	59	206	24	23	2,988	5,141
		1929	1,644	68	199	11	13	1,935	2,994
4a	Elginfield (London traffic)	1928	1,138	19	52	10	4	1,223	1,888
		1929	428	25	44	2	1	500	743
4b	Elginfield (Lucan traffic)	1928	665	7	38	2	8	720	1,063
		1929	Under construction						
5	Brucefield	1928	470	11	63	......	56	600	752
		1929	532	14	70	......	43	659	778

WALKERTON-DURHAM HIGHWAY

Highway No. 4a

Traffic Census—Summer

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	At Chesley Road	1928	666	37	44	1	41	789	949
		1929	611	41	56	5	40	753	1,022

WALKERTON-DURHAM HIGHWAY

Highway No. 4a

Traffic Census—Fall

Daily Average

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	At Chesley Road	1928	508	8	26	1	36	579	775
		1929	611	8	64	4	33	720	983

TORONTO TO HIGHWAY No. 8

Highway No. 5

Traffic Census—Summer

Daily Average

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Islington	1928	5,789	339	725	62	15	6,930	10,197
		1929	5,216	455	801	47	15	6,534	10,371
2	Cooksville	1928	6,448	369	741	30	18	7,606	12,323
		1929	7,357	734	1,018	24	15	9,148	17,333
3	Trafalgar	1928	2,717	315	265	7	12	3,316	6,100
		1929	3,405	638	427	12	5	4,487	7,706
4	Brant Street	1928	2,033	283	157	8	3	2,484	4,451
		1929	2,673	595	311	11	3	3,593	5,818
5	Clappison's Corners, traffic east of	1928	2,865	259	264	7	6	3,401	5,711
		1929	3,741	670	407	14	5	4,837	8,087
6	Clappison's Corners, traffic west of	1928	458	15	11	1	6	491	983
		1929	1,129	88	164	....	6	1,387	2,769

Highway No. 5

TORONTO TO HIGHWAY No. 8

Traffic Census—Fall

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Islington	1928	6,781	365	937	51	17	8,151	15,051
		1929	4,373	139	544	37	14	5,108	8,496
2	Cooksville	1928	5,847	319	767	18	11	6,962	14,817
		1929	5,248	126	801	18	19	6,212	10,507
3	Trafalgar	1928	3,199	248	375	7	6	3,835	7,365
		1929	2,959	144	385	8	5	3,501	5,631
4	Brant Street	1928	2,433	222	225	9	1	2,890	5,379
		1929	2,449	142	288	8	3	2,890	4,807
5	Clappison's Corners (traffic east of)	1928	3,087	126	277	11	4	3,505	6,542
		1929	2,913	114	403	10	6	3,446	4,992
6	Clappison's Corners (traffic west of)	1928	741	16	103	1	5	866	1,759
		1929	961	21	155	1	4	1,142	1,819

Highway No. 6

PORT DOVER-OWEN SOUND HIGHWAY

Traffic Census—Summer

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Jarvis, traffic south of	1928	410	70	42	5	24	551	1,286
		1929	483	68	50	5	18	624	1,394
2	Jarvis, traffic north of	1928	946	95	131	9	32	1,213	2,018
		1929	1,128	138	133	8	22	1,429	2,649
3	At Ohsweken Road	1928	1,068	81	155	12	19	1,335	3,089
		1929	1,179	101	217	10	14	1,521	3,405
4	Concessions 5 and 6, Glanford Township	1928	1,313	89	157	19	17	1,595	3,499
		1929	1,653	117	196	14	8	1,988	4,539
5	Clappison's Corners	1928	3,477	300	357	22	12	4,168	7,132
		1929	4,410	723	466	25	10	5,634	10,877
6	Freelton	1928	1,090	85	137	12	16	1,340	2,748
		1929	1,125	89	147	11	12	1,384	3,120
7	South of Guelph, Lots 6 and 7, Puslinch Township	1928	1,189	138	142	12	25	1,506	3,061
		1929	1,409	178	196	11	16	1,810	3,721
8	North of Guelph at Elora Road	1928	1,198	62	86	4	17	1,367	2,527
		1929	920	92	87	1	4	1,104	2,032
9	Arthur, junction of Highway No. 9	1928	713	58	62	4	91	928	1,536
		1929	876	63	103	8	78	1,128	1,794
10	South of Durham	1928	424	31	35	4	19	513	763
		1929	506	40	42	5	17	610	944
11	Chatsworth Corners	1928	588	25	33	4	20	670	1,118
		1929	549	30	41	5	14	639	885

PORT DOVER-OWEN SOUND HIGHWAY, Via Hamilton

Highway No. 6

Traffic Census—Fall

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Jarvis, traffic south of	1928	218	3	33	......	20	274	402
		1929	195	5	82	......	16	298	352
2	Jarvis, traffic north of	1928	823	13	141	8	31	1,016	1,301
		1929	853	25	175	9	31	1,093	1,248
3	At Ohsweken Road	1928	799	16	150	9	18	992	1,635
		1929	837	30	183	11	24	1,085	1,500
4	Concessions 6 and 7, Glanford Township	1928	1,029	31	164	16	14	1,254	2,167
		1929	1,147	28	200	14	25	1,414	2,118
5	Clappison's Corners	1928	3,366	134	374	21	18	3,913	6,667
		1929	3,535	115	494	22	14	4,180	6,228
6	Freelton	1928	918	23	171	12	17	1,141	2,296
		1929	904	33	176	11	13	1,137	1,971
7	South of Guelph, Lots 6 and 7, Puslinch Township	1928	1,213	52	225	11	29	1,530	3,038
		1929	1,180	59	266	12	28	1,545	2,510
8	North of Guelph at Elora Road	1928	445	12	45	3	9	514	981
		1929	864	25	100	1	5	995	1,595
9	South of Arthur	1928	686	19	84	6	82	877	1,416
		1929	823	30	99	4	79	1,035	1,487
10	South of Durham	1928	417	15	33	6	18	489	706
		1929	472	18	42	4	16	552	733
11	Chatsworth Corners (Guelph traffic)	1928	569	5	29	7	22	632	1,086
		1929	517	8	46	5	23	599	931

Highway No. 7

SARNIA-PETERBOROUGH HIGHWAY

Traffic Census—Summer

Daily Average

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Junction of Wyoming Road	1928	732	489	41	5	16	1,283	2,391
		1929	824	668	67	7	17	1,583	2,852
2	West of Wisbeach	1928	203	301	18	2	6	530	881
		1929	458	525	40	3	4	1,030	1,824
3	West of Parkhill at Kerwood Road	1928	Under con	struction					
		1929	305	148	33	3	30	519	989
4	Parkhill	1928	942	320	105	6	88	1,461	1,786
		1929	893	235	71	6	63	1,268	1,629
5a	Elginfield (Sarnia traffic)	1928	295	69	14	7	3	388	713
		1929	185	73	11	....	3	272	522
5b	Elginfield (Stratford traffic)	1928	223	55	11	7	10	306	586
		1929	226	12	17	9	5	269	462
6	West of St. Mary's	1928	686	80	106	7	30	909	1,306
		1929	793	84	138	10	16	1,041	1,652
7	South of Stratford	1928	1,159	106	103	6	33	1,407	2,322
		1929	1,550	115	129	10	26	1,830	3,411
8	Shakespeare	1928	1,224	106	125	6	36	1,497	2,780
		1929	1,401	105	169	10	17	1,702	2,944
9	West of Baden	1928	1,238	98	141	8	22	1,507	2,677
		1929	1,351	119	212	12	11	1,705	3,067

Highway No. 7

SARNIA-PETERBOROUGH HIGHWAY, Via Stratford and Brampton

Traffic Census—Fall

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	At Wyoming Road	1928	711	288	56	4	31	1,090	2,037
		1929	737	299	65	6	17	1,124	2,045
2	West of Wisbeach	1928	374	241	34	4	4	657	1,161
		1929	214	139	23	2	4	382	673
3	West of Parkhill at Kerwood Road	1928	358	106	66	2	34	566	825
		1929	236	73	70	2	25	406	473
4	Parkhill	1928	734	107	52	5	71	969	1,282
		1929	733	131	93	4	45	1,006	1,325
5a	Elginfield (to Sarnia traffic)	1928	224	21	10	......	1	256	427
		1929	513	36	50	2	2	603	963
5b	Elginfield (to Stratford traffic)	1928	495	22	18	8	6	549	893
		1929	607	54	65	7	3	736	1,202
6	West of St. Mary's	1928	Under construction						
		1929	915	40	144	10	22	1,131	1,490
7	South of Stratford	1928	1,109	46	126	8	47	1,336	2,398
		1929	1,270	70	128	7	29	1,504	2,309
8	Shakespeare	1928	1,337	50	141	9	37	1,574	2,713
		1929	1,255	44	156	8	30	1,493	2,421
9	West of Baden	1928	1,240	50	211	10	23	1,534	2,966
		1929	1,478	60	196	10	23	1,767	2,715

Highway No. 7

SARNIA-PETERBOROUGH HIGHWAY

Traffic Census—Summer

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
10	East of Kitchener at Breslau Road	1928	547	28	32	7	14	628	1,189
		1929	930	50	95	10	12	1,097	2,061
11	West of Guelph, Concessions 4 and 5, Guelph Twp.	1928	Under construction						
		1929	1,016	53	101	10	10	1,190	2,201
12	East of Guelph, Lot 11, Concession 2, Guelph Twp.	1928	965	26	93	6	15	1,105	2,106
		1929	1,311	43	162	10	10	1,536	2,724
13	Junction of Highway No. 10	1928	1,270	28	155	9	10	1,472	2,255
		1929	1,420	57	256	11	8	1,752	3,449
13½a	Concord Crossing	1929	868	17	93	6	5	989	2,190
13½	Woodbridge Crossing	1929	1,619	26	162	33	19	1,859	4,000
14	Langstaff, Corner of Yonge St	1928	684	21	96	1	19	821	1,584
		1929	940	19	109	1	17	1,086	2,542
14½	Markham	1929	1,866	18	154	12	24	2,074	5,299
15	South of Brooklin, Junction of Highway No. 12	1928	335	8	27	....	12	382	929
		1929	452	14	64	....	8	538	1,348
16	West of Lindsay, Lots 12, 13, Brock Township	1928	309	50	18	4	15	396	619
		1929	470	27	15	1	12	525	1,266
17	West limits of Lindsay	1928	884	47	65	4	26	1,026	1,499
		1929	1,101	63	70	5	16	1,255	1,950
18	South of Lindsay at Newcastle Road	1928	399	21	29	....	19	468	695
		1929	523	28	36	5	18	610	992
19	Junction of Chemong Road, (traffic west of Chemong Rd)	1928	300	22	29	....	18	369	836
		1929	170	9	19	3	7	208	370
20	Junction of Chemong Road, (traffic south of Chemong Rd)	1928	649	51	58	....	13	771	1,308
		1929	981	78	77	5	14	1,155	1,779

Highway No. 7

SARNIA-PETERBOROUGH HIGHWAY, Via Stratford and Brampton

Traffic Census—Fall

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
10	East of Kitchener at Breslau Road	1928	1,087	16	96	10	21	1,230	3,838
		1929	880	23	132	7	21	1,063	1,740
11	West of Guelph, Concessions 4 and 5, Guelph Twp.	1928	867	11	99	10	11	998	2,084
		1929	974	21	134	8	9	1,146	1,789
12	East of Guelph, Lot 11, Concession 2, Guelph Twp.	1928	901	7	97	10	16	1,031	1,968
		1929	1,076	24	158	8	14	1,280	1,953
13	At Brampton-Owen Sound Highway	1928	1,209	15	163	11	9	1,407	3,096
		1929	1,204	27	266	8	10	1,515	2,274
14	Langstaff, Yonge Street Corner	1928	673	5	195	1	20	894	2,142
		1929	655	7	173	......	23	858	1,440
14½	Markham Village at junction of Road No. 68	1928	1,054	55	399	36	59	1,603	2,729
		1929	1,253	5	350	8	22	1,638	2,639
15	South of Brooklin at Highway No. 12	1928	292	4	33	......	15	344	860
		1929	302	1	43	......	15	361	602
16	West of Lindsay, Lot 12, 13, Brock Township	1928	316	1	21	4	14	356	702
		1929	516	5	34	4	12	571	1,107
17	West limits of Lindsay	1928	901	4	162	4	22	1,093	1,534
		1929	783	8	64	9	16	880	1,258
18	South limits of Lindsay	1928	324	4	20	......	21	369	630
		1929	469	5	31	3	15	523	738
19	At the intersection of Chemong Road (traffic west of Chemong Road)	1928	353	2	27	......	7	389	1,013
		1929	367	3	33	5	2	410	508
20	At the intersection of Chemong Road (traffic south of Chemong Road)	1928	Not	taken					
		1929	600	6	78	5	12	701	788

Highway No. 8

NIAGARA FALLS-GODERICH HIGHWAY

Traffic Census—Summer

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	South End Corner	1928	2,999	3,295	563	97	35	6,989	9,567
		1929	3,737	2,863	751	94	24	7,469	10,578
2a	St. David's (Niagara Falls traffic)	1928	2,378	2,439	284	58	10	5,169	7,738
		1929	3,560	3,711	319	59	7	7,656	11,835
2b	St. David's (St. Catharines traffic)	1928	2,614	2,764	245	79	16	5,718	9,068
		1929	3,602	3,720	320	63	16	7,721	12,196
3	Jordan Corners	1928	2,608	2,327	405	45	9	5,394	9,284
		1929	2,846	2,680	437	50	12	6,025	12,869
4	Junction of Grimsby Park Road	1928	3,092	2,328	425	34	20	5,899	10,199
		1929	3,709	3,016	529	40	18	7,312	14,924
5	Junction of Old Stoney Creek Road	1928	4,095	2,531	513	41	6	7,186	12,883
		1929	4,926	3,152	738	57	6	8,879	14,370
6	Binkley's Corners	1928	3,093	263	589	172	30	4,147	5,657
		1929	3,373	207	527	148	17	4,272	5,860
7	Bullock's Corners	1928	1,908	129	379	20	22	2,458	3,943
		1929	1,895	167	287	18	21	2,388	4,316
8	Southeast limits of Preston	1928	2,622	162	316	127	19	3,246	4,646
		1929	3,174	174	362	129	22	3,861	5,790
9	East of Sebringville	1928	1,401	61	87	....	29	1,578	2,647
		1929	1,447	96	137	9	28	1,717	2,910
10	Dublin	1928	646	34	57	....	54	791	1,328
		1929	796	41	87	6	43	973	1,723
11	South of Goderich	1928	415	17	26	....	19	477	838
		1929	574	50	53	4	19	700	1,366

NIAGARA FALLS-GODERICH HIGHWAY

Highway No. 8

Traffic Census—Fall

Daily Average

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	South End Corner	1928	3,028	1,282	638	87	33	5,068	6,483
		1929	2,919	1,122	471	89	18	4,619	6,162
2a	St. David's (Niagara Falls traffic)	1928	1,861	1,097	341	55	9	3,363	5,715
		1929	2,277	1,284	283	58	16	3,918	6,814
2b	St. David's (St. Catharines traffic)	1928	2,060	1,269	347	57	16	3,749	6,493
		1929	2,204	1,254	311	58	10	3,837	6,848
3	Jordan Corners	1928	2,059	1,014	482	36	23	3,614	6,450
		1929	2,096	906	495	38	23	3,558	5,581
4	At Grimsby Park Road	1928	2,796	1,083	544	30	17	4,470	10,033
		1929	2,249	1,033	559	30	21	3,892	6,272
5	Junction Stoney Creek Road	1928	3,075	1,156	631	37	5	4,914	8,284
		1929	3,060	1,533	823	39	9	5,464	8,716
6	Binkley's Corner	1928	2,928	106	479	127	31	3,671	4,111
		1929	3,426	184	682	129	13	4,434	5,404
7	Bullock's Corner	1928	1,697	49	255	14	25	2,040	3,425
		1929	1,794	56	272	17	23	2,162	3,242
8	South-east limits of Preston	1928	2,534	57	321	127	24	3,063	4,279
		1929	3,167	72	410	140	21	3,810	4,970
9	East of Sebringville at St. Mary's Road	1928	1,098	39	96	6	37	1,276	2,097
		1929	1,192	39	117	2	36	1,386	2,101
10	Dublin	1928	596	8	48	6	46	704	1,256
		1929	648	18	65	2	42	775	1,133
11	South of Goderich at Lot 9, Concession A, Goderich Township	1928	74	1	21	......	15	111	6
		1929	511	11	40	1	21	584	815

BURLINGTON BEACH HIGHWAY

Highway No. 8a

Traffic Census—Summer

Daily Average

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Burlington Beach Highway at junction of Beach Rd.	1928	4,208	798	352	12	22	5,392	7,148
		1929	4,272	1,014	382	54	11	5,733	6,859
2	Beach Rd. at junction of Burlington Beach Highway.	1928	3,051	168	224	1	12	3,456	5,657
		1929	4,272	450	396	96	11	5,225	8,614

BURLINGTON BEACH HIGHWAY

Highway No. 8a

Traffic Census—Fall

Daily Average

	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	At intersection of Beach Road	1928	2,136	137	368	10	10	2,661	3,438
		1929	2,303	389	437	66	9	3,204	6,083
2	Beach Road at intersection of Burlington Beach Highway	1928	1,253	15	207	3	7	1,485	2,412
		1929	1,352	94	262	53	8	1,769	3,117

Highway No. 9

ARTHUR-KINCARDINE HIGHWAY

Traffic Census—Summer

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	At junction of Highway No. 6	1928	242	15	23	....	32	312	468
		1929	264	14	41	3	13	335	571
2	Teviotdale	1928	494	30	31	1	19	575	1,030
		1929	Under con	struction					
3	North limits of Clifford Village	1928	374	16	38	....	30	458	752
		1929	476	22	52	4	31	585	1,069
4	At junction of Teeswater Road	1928	257	30	35	....	13	335	521
		1929	333	32	40	1	16	422	684

Highway No. 9

ARTHUR-KINCARDINE HIGHWAY

Traffic Census—Fall

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	South of Arthur	1928	244	4	45	......	14	307	532
		1929	284	10	40	......	7	341	454
2	Teviotdale	1928	388	9	32	......	12	441	809
		1929	Under construction						
3	North limits of Clifford Village	1928	356	4	36	......	37	433	870
		1929	387	8	42	......	48	485	668
4	Junction of Teeswater Road (at Kinloss in 1927)	1928	256	4	26	......	14	300	489
		1929	303	3	30	......	10	346	428

PORT CREDIT-CHATSWORTH HIGHWAY

Highway No. 10

Traffic Census—Summer

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Cooksville Corners	1928	3,687	88	438	41	17	4,271	8,302
		1929	3,780	193	468	27	13	4,481	8,147
2	At junction of Highway No. 7	1928	1,334	19	121	8	6	1,488	2,620
		1929	1,677	50	238	10	7	1,982	3,651
3	North of Orangeville	1928	710	16	249	2	23	1,000	1,243
		1929	797	25	91	2	20	935	1,453
4	North of Shelburne	1928	367	14	17	2	24	424	526
		1929	406	19	31	....	22	478	787
5	Flesherton	1928	886	27	75	9	50	1,047	1,392
		1929	1,363	72	129	6	73	1,643	2,235
6	Chatsworth	1928	293	6	12	....	10	321	542
		1929	368	10	28	....	9	415	586

Highway No. 10

PORT CREDIT-CHATSWORTH HIGHWAY

Traffic Census—Fall

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Cooksville Corner	1928	2,641	138	426	22	14	3,241	5,862
		1929	2,481	22	371	17	13	2,904	5,263
2	At Brampton-Guelph Highway	1928	1,267	12	137	9	6	1,431	2,765
		1929	1,649	21	353	9	14	2,046	3,063
3	North of Orangeville	1928	348	5	291	....	8	652	807
		1929	737	5	115	....	21	878	1,210
4	North of Shelburne	1928	279	3	16	....	16	314	566
		1929	340	8	37	....	18	403	530
5	Flesherton	1928	967	1	114	8	90	1,180	1,521
		1929	1,342	22	181	9	75	1,629	1,913
6	Chatsworth Corners (Orangeville traffic)	1928	417	1	20	......	22	460	1,388
		1929	490	2	34	......	18	454	1,178

TORONTO-SEVERN HIGHWAY

Highway No. 11

Traffic Census—Summer

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Viehcles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Lansing Corner	1928	7,351	487	694	13	27	8,572	15,514
		1929	8,923	773	832	26	21	10,575	18,365
2	Langstaff Corner	1928	5,610	321	354	14	17	6,316	11,895
		1929	7,186	436	485	26	15	8,148	18,731
3	South Holland Landing Hill	1928	2,410	321	109	9	4	2,853	6,005
		1929	2,978	361	135	18	2	3,494	7,646
4	South of Barrie	1928	2,107	255	64	9	6	2,441	5,044
		1929	2,541	331	117	16	5	3,010	6,282
5	Crown Hill	1928	1,346	235	43	7	4	1,635	2,978
		1929	1,557	344	64	11	5	1,981	4,255
6	South limits of Orillia	1928	1,721	240	85	7	19	2,072	3,143
		1929	1,998	317	87	21	26	2,449	4,405
7	At junction of Sparrow Lake Road	1928	1,115	235	57	....	8	1,415	2,329
		1929	1,375	313	63	4	4	1,759	3,252

Highway No. 11

TORONTO-SEVERN HIGHWAY

Traffic Census—Fall

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Lansing Corner	1928	5,444	56	611	10	21	6,142	11,770
		1929	4,986	50	714	17	25	5,792	6,983
2	Langstaff Corner	1928	3,930	67	510	9	23	4,539	10,587
		1929	3,887	83	612	21	20	4,623	8,223
3	Top of South Holland Landing Hill	1928	1,390	49	116	7	8	1,570	3,692
		1929	1,278	40	134	7	5	1,464	2,924
4	South of Barrie	1928	1,167	49	71	7	10	1,304	2,891
		1929	1,077	41	80	8	11	1,217	2,283
5	Crown Hill	1928	667	14	34	15	6	736	1,508
		1929	577	25	38	6	3	649	1,111
6	South limits of Orillia	1928	1,043	31	71	16	32	1,193	2,065
		1929	969	25	94	17	24	1,129	1,580
7	South of Washago at Sparrow Lake Road	1928	512	32	41	......	6	591	1,158
		1929	566	29	44	......	9	648	1,069

Highway No. 12

WHITBY-ORILLIA HIGHWAY

Traffic Census—Summer

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	South of Brooklin	1928	1,571	83	118	6	20	1,798	3,853
		1929	1,851	103	178	7	20	2,159	4,931
2	Manchester Corners	1928	1,080	55	67	6	12	1,220	2,677
		1929	1,427	63	87	6	15	1,598	4,391
3	At junction of Highway No. 7	1928	414	51	22	3	15	505	861
		1929	637	34	21	1	13	706	1,776
4	At junction of Sutton Road, South of Beaverton	1928	Not	taken					
		1929	447	30	28	....	22	527	822
5	South end of Atherley Bridge	1928	Not	taken					
		1929	1,329	102	95	1	25	1,552	2,431

Highway No. 12

WHITBY-ORILLIA HIGHWAY

Traffic Census Fall

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Viehcles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	South of Brooklin	1928	1,167	12	133	5	20	1,337	2,772
		1929	1,160	14	174	7	21	1,376	2,555
2	Manchester Corner	1928	776	4	102	5	14	901	2,213
		1929	813	6	103	9	14	945	1,931
3	At junction of Highway No. 7 (traffic north of)	1928	418	1	20	3	16	458	1,031
		1929	501	5	26	5	11	548	1,171
4	South of Beaverton, at Sutton Road	1928	165	2	13		28	208	320
		1929	234	2	20	2	42	300	366
5	South end of Atherley Bridge	1928	617	14	75	...	35	741	1,090
		1929	641	17	78	2	32	770	1,156

Highway No. 14

PICTON-FOXBORO HIGHWAY

Traffic Census—Summer

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Bloomfield	1928	663	39	66	3	69	840	1,148
		1929	894	34	127	8	61	1,124	1,857
2	Rossmore	1928	690	38	104	7	14	853	1,322
		1929	901	37	96	5	8	1,047	1,647
3	North limits of Belleville	1928	359	17	41	6	18	441	798
		1929	1,316	28	130	3	29	1,506	2,118
4	Foxboro	1928	629	36	67	6	32	770	987
		1929	388	9	55	2	15	469	626
5	South limits of Marmora	1928	1,080	106	116	13	105	1,420	1,566
		1929	1,200	81	116	8	63	1,468	2,874

Highway No. 14

PICTON-FOXBORO HIGHWAY

Traffic Census—Fall

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Bloomfield	1928	639	4	69	8	53	773	1,150
		1929	714	5	121	11	47	898	1,113
2	Rossmore	1928	638	13	124	4	19	798	1,294
		1929	709	6	154	4	7	880	1,051
3	North limits of Belleville	1928	771	5	91	2	29	898	1,287
		1929	1,147	12	231	42	54	1,486	1,969
4	Foxboro	1928	421	7	58	2	18	506	800
		1929	332	3	61	2	18	416	511
5	South limits of Marmora	1928	830	5	97	8	99	1,039	1,255
		1929	889	13	111	15	64	1,092	1,299

Highway No. 15

KINGSTON-OTTAWA HIGHWAY

Traffic Census—Summer

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Barriefield	1928	696	92	79	5	35	907	1,153
		1929	1,094	164	98	3	19	1,378	1,959
2	Seeley's Bay	1928	484	82	31	4	9	610	694
		1929	511	124	64	3	14	716	1,165
3	Lombardy	1928	513	55	24	4	109	705	952
		1929	534	66	92	2	98	792	1,051
4	Lot 7, Concession III, Drummond Township	1928	368	23	15	4	28	438	1,151
		1929	330	34	15	2	15	396	607
5	Carleton Place, junction of Smith's Falls—Carleton Place Road	1928	548	37	31	4	19	639	886
		1929	647	48	38	2	11	746	1,198
6	Bell's Corners	1928	1,098	68	112	3	37	1,318	2,284
		1929	1,113	73	104	2	24	1,316	2,461

Highway No. 15

KINGSTON-OTTAWA HIGHWAY

Traffic Census—Fall

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Barriefield	1928	653	37	76	3	45	814	1,281
		1929	838	75	86	3	22	1,024	1,181
2	Seeley's Bay	1928	344	26	35	5	9	419	595
		1929	395	29	49	2	9	484	591
3	Lombardy	1928	384	15	17	4	61	481	829
		1929	502	17	86	2	60	667	833
4	Lot 7, Concession III, Drummond Township	1928	215	6	10	2	13	246	475
		1929	249	7	137	......	9	402	509
5	Carleton Place, junction of Smith's Falls Road	1928	523	23	47	2	25	620	1,253
		1929	438	14	44	......	19	515	840
6	Bell's Corners	1928	858	27	80	1	30	996	2,223
		1929	868	24	118	......	19	1,029	1,806

JOHNSTOWN-OTTAWA HIGHWAY

Highway No. 16

Traffic Census—Summer

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Johnstown Corners	1928	638	246	56	5	6	951	1,481
		1929	690	346	42	8	5	1,091	1,635
2	Concessions I and II, Oxford Township	1928	545	169	35	6	18	773	1,149
		1929	695	226	61	9	8	999	1,709
3	At junction of Highway No. 15	1928	2,017	214	153	10	25	2,419	2,838
		1929	2,814	311	138	10	29	3,302	4,701

JOHNSTOWN-OTTAWA HIGHWAY

Highway No. 16

Traffic Census—Fall

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Johnstown Corners	1928	630	112	93	5	71	911	1,250
		1929	449	163	52	7	5	676	1,153
2	Concessions I and II, Oxford Township	1928	420	93	39	5	12	569	1,098
		1929	539	119	49	7	13	727	1,224
3	At junction of Ottawa-Kingston Highway	1928	1,308	180	132	5	27	1,652	2,614
		1929	1,474	151	127	6	20	1,778	2,712

Highway No. 17

PEMBROKE-POINT FORTUNE HIGHWAY

Traffic Census—Summer

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	At Beachburg Road, Concessions I and II, Ross Twp.	1928	491	29	27	1	79	627	1,060
		1929	424	44	40	....	48	556	645
2	At Government Road Crossing..................	1928	472	46	36	....	22	576	835
		1929	461	60	33	....	17	571	750
3	Lot 21, Concession 1, Admaston Township........	1928	276	28	19	....	17	340	506
		1929	356	46	35	4	16	457	663
4	At junction of Forks Road, half mile west of Arnprior.	1928	399	39	29	1	31	499	730
		1929	432	51	26	....	21	530	605
5	Lots 20, 21, Concessions III and IV, Fitzroy Twp..	1928	614	32	51	2	29	728	805
		1929	681	65	43	4	12	805	1,201
6	Lots 15, 16, Concessions III and IV, March Twp...	1928	548	42	74	3	23	690	1,088
		1929	1,201	46	52	4	16	1,319	2,224
7	Intersection of Main St., Westboro and Carling Aves.	1928	1,692	100	141	1	41	1,975	2,173
		1929	1,975	149	140	....	31	2,295	3,167
8	Quarries....................................	1928	806	264	109	13	50	1,242	1,945
		1929	1,018	344	211	22	39	1,634	2,436
9	One mile west of Alfred......................	1928	310	203	29	4	111	657	1,012
		1929	392	289	48	9	105	843	1,365
10	Point Fortune................................	1928	198	302	23	2	25	550	909
		1929	301	408	46	5	31	791	1,348

Highway No. 17

PEMBROKE-POINT FORTUNE HIGHWAY

Traffic Census—Fall

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Provincial Highway between Concessions I and II, Ross Township at Beachburg Road	1928	293	11	22	......	62	388	575
		1929	357	14	41	......	88	500	589
2	Junction of Government Road crossing	1928	324	21	30	......	20	395	697
		1929	425	19	26	......	15	485	762
3	Lot 21, Concession I, Admaston Township	1928	221	15	29	......	30	295	462
		1929	355	15	27	......	9	406	588
4	Half mile west of Arnprior, junction of Forks Road	1928	364	13	28	......	37	442	713
		1929	357	15	31	3	20	426	575
5	Lots 20, 21, Concessions III, IV, Fitzroy Township	1928	480	20	40	......	9	549	661
		1929	499	21	45	3	11	579	785
6	Lots 15 and 16, Concessions III, IV, March Twp.	1928	535	15	39	......	20	609	944
		1929	627	23	69	2	15	736	1,002
7	Intersection of Main St. Westboro and Carling Aves.	1928	955	42	120	1	42	1,160	2,097
		1929	1,166	26	152	......	40	1,384	2,025
8	Quarries	1928	659	174	182	12	60	1,087	2,083
		1929	890	187	243	12	36	1,368	2,054
9	One mile west of Alfred	1928	256	139	26	4	94	519	901
		1929	349	177	57	6	85	674	934
10	Point Fortune	1928	188	189	27	2	28	434	863
		1929	206	233	37	3	25	504	828

MORPETH TO HIGHWAY No. 7 Via Dresden

Highway No. 21

Traffic Census—Summer

Daily Average

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Morpeth	1928	Under construction						
		1929	"	"					
2	At junction of Ridgetown-Highgate Road	1928	269	18	41	1	7	336	559
		1929	307	56	36	......	11	410	744
3	At junction of Townline Road between Camden and Chatham Townships	1928	218	14	27	6	21	286	475
		1929	334	34	65	6	19	458	815
4	At intersection of Highway No. 7	1928	381	35	24	2	14	456	827
		1929	390	36	31	1	15	473	886

MORPETH TO HIGHWAY No. 7 Via Dresden

Highway No. 21

Traffic Census—Fall

Daily Average

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Morpeth	1928	424	19	48	3	20	514	649
		1929	487	19	48	6	24	584	782
2	Intersection of Ridgetown-Highgate Road	1928	588	33	57	......	27	705	1,239
		1929	867	38	81	......	28	1,014	1,323
3	Dresden-Thamesville Road at Townline Road between Camden and Chatham Township	1928	233	7	22	6	30	304	470
		1929	259	18	36	5	27	345	528
4	Intersection of Sarnia-London Highway	1928	366	13	33	......	34	446	701
		1929	347	16	35	......	13	411	673

LONDON TO HIGHWAY No. 7, Via Strathroy

Highway No. 22

Traffic Census—Summer

Daily Average

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Poplar Hill	1928	Under construction						
		1929	588	392	46	3	4	1,033	1,676
2	At junction of Norwood Road	1928	413	52	56	3	23	547	903
		1929	Under construction						
3	At junction of Highway No. 4, north of London	1928	154	7	21	....	5	187	333
		1929	52	....	23	....	8	83	107

LONDON TO HIGHWAY No. 7 Via Strathroy

Highway No. 22

Traffic Census—Fall

Daily Average

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Poplar Hill	1928	593	228	34	2	7	864	1,468
		1929	451	167	42	2	5	667	1 127
2	Junction of Kerwood Road	1928	159	6	83	......	41	289	347
		1929	353	21	79	6	23	482	664
3	North of London at Highway No. 4	1928	221	13	22	......	5	261	408
		1929	Under construction						

MITCHELL-TEVIOTDALE HIGHWAY

Highway No. 23

Traffic Census—Summer

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Bornholm	1928	368	13	62	1	34	478	713
		1929	469	22	54	4	25	574	928
2	Gowanstown	1928	645	24	32	....	49	750	2,100
		1929	580	22	83	4	37	726	1,304
3	Teviotdale	1928	234	11	8	....	10	263	523
		1929	Under construction						

MITCHELL-TEVIOTDALE HIGHWAY

Highway No. 23

Traffic Census—Fall

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Bornholm	1928	339	7	94	......	37	477	606
		1929	404	13	49	......	40	506	608
2	Gowanstown	1928	358	6	48	......	40	452	586
		1929	413	5	44	......	24	486	604
3	Teviotdale	1928	175	3	8	......	6	192	355
		1929	Under construction						

SIMCOE-GUELPH HIGHWAY

Highway No. 24

Traffic Census—Summer

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Railway Crossing at Waterford	1928	731	53	98	....	23	905	1,685
		1929	816	65	138	....	24	1,043	2,052
2	Oakland	1928	728	34	95	....	24	881	1,533
		1929	819	32	104	....	13	968	1,879
3	Paris, Guthries Corner	1928	212	24	26	1	17	280	407
		1929	316	23	34	....	14	387	642
4	At junction of Preston Road	1928	1,124	29	124	9	11	1,297	2,207
		1929	1,573	47	139	11	8	1,778	3,174
5	At junction of Ayr Road	1929	185	18	32	....	5	240	450

SIMCOE-GUELPH HIGHWAY, Via Brantford, Paris

Highway No. 24

Traffic Census—Fall

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	At Concessions VI and VII, Townsend Township	1928	551	9	111	......	33	704	1,036
		1929	668	17	115	......	20	820	1,091
2	Oakland	1928	649	10	114	......	24	797	1,303
		1929	725	12	126	4	15	882	1,232
3	Paris-Guthries Corner	1928	296	13	27	......	28	364	603
		1929	301	12	25	......	30	368	413
4	Paris-Galt Rd, junction of Road to Ayr (old Highway No. 24)	1928	258	14	18	......	6	296	660
		1929	182	7	36	......	6	231	339
5	Junction of Road to Preston	1928	1,077	15	116	9	14	1,231	1,782
		1929	1,094	10	148	9	9	1,270	1,806

PALERMO-MILTON HIGHWAY

Highway No. 25

Traffic Census—Summer

Daily Average

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Trtal Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Boyne	1928	Under construction						
		1929	"	"					

PALERMO-MILTON HIGHWAY

Highway No. 25

Traffic Census—Fall

Daily Average

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Boyne	1928	Under construction						
		1929	385	5	148	8	9	555	602

BARRIE-OWEN SOUND HIGHWAY

Highway No. 26

Traffic Census—Summer

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Midhurst	1928	Under construction						
		1929	546	28	25	5	9	613	1,154
2	Sunnidale Corners	1928	484	28	19	7	14	552	1,173
		1929	482	29	21	5	10	547	1,050
3	Lot 31, Collingwood Township	1928	582	8	33	3	29	655	788
		1929	Not taken						
4	East of Owen Sound at C.P.R. crossing	1928	428	24	22	1	12	487	1,001
		*1929	395	27	78	2	23	525	590

*As this road was under construction, many of the cars detoured at the first side road east of the crossing.

BARRIE-OWEN SOUND HIGHWAY

Highway No. 26

Traffic Census—Fall

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Midhurst	1928	384	7	32	......	19	442	666
		1929	304	4	23	......	15	346	431
2	Sunnidale Corners	1928	253	7	16	......	27	303	515
		1929	329	4	38	......	24	395	499
3	Lot 31, Collingwood Township	1928	583	......	51	......	25	659	774
		1929	414	1	83	......	35	533	569
4	Woodford	1928	350	3	25	......	12	390	631
		1929	542	8	127	......	44	721	928

Highway No. 27

BARRIE-MIDLAND AND PENETANGUISHENE

Traffic Census—Summer

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Bsuses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Midhurst	1928	Under construction						
		1929	224	11	20	....	3	258	539

Highway No. 27

BARRIE-MIDLAND AND PENETANGUISHENE

Traffic Census—Fall

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Midhurst	1928	123	1	19	......	4	147	213
		1929	151	3	14	......	8	176	206

Highway No. 28

PORT HOPE-PETERBOROUGH HIGHWAY

Traffic Census—Summer

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	At junction of Welcome Road	1928	464	87	136	2	32	721	1,132
		1929	1,124	289	98	5	12	1,528	2,516
2	South of Peterborough	1928	927	133	70	2	15	1,147	1,991
		1929	1,053	155	117	4	13	1,342	2,218

Highway No. 28

PORT HOPE-PETERBOROUGH HIGHWAY

Traffic Census—Fall

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Intersection of Welcome Road	1928	696	9	90	3	34	832	1,785
		1929	834	20	137	3	31	1,025	1,519
2	South of Peterborough at Concessions 7 and 8, Monaghan Township	1928	762	25	89	2	20	898	1,863
		1929	777	29	114	2	15	937	1,595

Highway No. 29

BROCKVILLE-ARNPRIOR HIGHWAY

Traffic Census—Summer

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Forthon	1928	122	76	37	5	6	246	357
		1929	202	56	40	4	2	304	522
2	Toledo	1928	500	67	60	9	47	683	851
		1929	670	121	77	8	36	912	1,457
3	Lots 2, 3, Concession IX, Ramsay Township	1928	429	20	29	......	22	500	671
		1929	507	30	49	......	20	606	750
4	Lots 20, 21, Concession IX, Ramsay Township	1928	Under construction						
		1929	235	21	37	1	13	307	380
5	Pakenham	1928	290	10	44	......	118	462	527
		1929	320	14	274	......	92	700	759

Highway No. 29

BROCKVILLE-ARNPRIOR HIGHWAY, Via Smith's Falls and Carleton Place

Traffic Census—Fall

Daily Average

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Forthon	1928	255	38	46	4	6	249	388
		1929	195	66	27	4	3	295	431
2	Toledo	1928	492	29	45	9	52	627	1,023
		1929	586	35	62	9	73	765	900
3	Concession 9, Lots 2, 3, Ramsay Township	1928	336	6	26	......	25	393	725
		1929	395	11	38	......	22	466	729
4	Concession 9, Lots 20, 21, Ramsay Township	1928	Under construction						
		1929	238	8	29	......	12	287	424
5	Pakenham	1928	220	5	52	......	89	366	467
		1929	203	4	41	......	73	321	386

MORRISBURG NORTH HIGHWAY

Highway No. 31

Traffic Census—Summer

Daily Average

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Morrisburg	1928	971	265	151	3	122	1,512	2,477
		1929	650	93	113	4	54	914	1,240
2	South of Winchester	1928	517	38	51	3	134	743	1,070
		1929	607	54	66	2	93	822	1,243

MORRISBURG NORTH HIGHWAY

Highway No. 31

Traffic Census—Fall

Daily Average

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
1	Morrisburg	1928	501	56	58	3	103	721	930
		1929	612	112	103	5	61	893	1,092
2	South of Winchester	1928	498	26	50	3	93	670	1,089
		1929	477	31	80	2	83	673	775

TRAFFIC ON THE BRIDGES IN THE NIAGARA DISTRICT

Summer

Station	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
Peace Bridge...	Going into United States	1928	1,724	28,560	193	416	1	30,894	
		1929	1,908	46,305	238	498	1	48,950	
	Coming into Canada	1928	1,886	32,368	226	480	1	34,961	
		1929	2,028	48,355	267	583	....	51,233	
	Total for 1 week, July 11th-17th	1928	3,610	60,928	419	896	2	65,855	
	Total for 1 week, July 10th-16th	1929	3,936	94,660	505	1,081	1	100,183	
	Daily Average	1928	516	8,704	60	128	....	9,408	11,377
	Daily Average	1929	562	13,523	72	155	....	14,312	19,709
Lower Niagara Falls Bridge...	Going into United States	1928	4,484	10,122	405	172	21	15,204	
		1929	4,810	11,942	390	186	10	17,338	
	Coming into Canada	1928	4,675	9,666	409	150	22	14,929	
		1929	4,890	11,494	450	192	11	17,037	
	Total for 1 week, July 11th-17th	1928	9,157	19,788	814	322	43	30,124	
	Total for 1 week, July 10th-16th	1929	9,700	23,436	840	378	21	34,375	
	Daily Average	1928	1,308	2,827	117	46	6	4,304	6,430
	Daily Average	1929	1,386	3,348	120	54	3	4,911	7,436

TRAFFIC ON THE BRIDGES IN THE NIAGARA DISTRICT

Summer

Station	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
Upper Niagara Falls Bridge	Going into United States	1928	3,106	10,307	87	60	4	13,564	
		1929	4,596	13,640	109	193	3	10,541	
	Coming into Canada	1928	5,009	11,645	86	41	4	16,785	
		1929	2,958	12,816	85	204	3	16,066	
	Total for 1 week, July 11th-17th	1928	8,115	21,952	173	101	8	30,349	
	Total for 1 week, July 10th-16th	1929	7,554	26,456	194	397	6	34,607	
	Daily Average	1928	1,160	3,136	24	15	1	4,336	5,160
	Daily Average	1929	1,079	3,779	28	57	1	4,944	6,214
Lewiston Bridge	Going into United States	1928	559	1,909	7	....	1	2,476	
		1929	555	2,377	26	1	1	2,960	
	Coming into Canada	1928	459	2,210	8	1	1	2,679	
		1929	519	2,332	39	4	1	2,895	
	Total for 1 week, July 11th-17th	1928	1,018	4,119	15	1	2	5,155	
	Total for 1 week, July 10th-16th	1929	1,074	4,709	65	5	2	5,855	
	Daily Average	1928	146	589	2	....	....	737	1,415
	Daily Average	1929	153	673	9	1	....	836	1,579
	Total for the Four Bridges	1928	21,900	106,787	1,421	1,320	55	131,483	
	Total for the Four Bridges	1929	22,264	149,261	1,604	1,861	30	175,020	

FALL

Traffic Census

DAILY AVERAGE

Station	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
Peace Bridge....	Going into United States..............	1928	2,762	10,485	215	348	....	13,810	
		1929	2,666	13,797	86	259	219	17,027	
	Coming into Canada..................	1928	2,171	11,098	196	365	1	13,831	
		1929	2,324	15,034	214	417	1	17,990	
	Total for one week, Oct. 10-16th...	1928	4,933	21,583	411	713	1	27,641	
	Total for one week, Oct. 9-15th...	1929	4,990	28,831	300	676	220	35,017	
	Daily Average..................	1928	705	3,083	59	102	....	3,949	6,578
	Daily Average..................	1929	713	4,119	43	97	31	5,003	7,913
Lower Niagara Falls Bridge..	Going into United States..............	1928	4,894	6,730	383	145	38	12,190	
		1929	5,687	8,608	635	211	20	15,161	
	Coming into Canada..................	1928	5,145	5,851	414	143	37	11,590	
		1929	5,804	6,646	693	149	19	13,311	
	Total for one week, Oct. 10-16th...	1928	10,039	12,581	797	288	75	23,780	
	Total for one week, Oct. 9-15th...	1929	11,491	15,254	1,328	360	39	28,472	
	Daily Average..................	1928	1,434	1,798	114	41	11	3,398	5,398
	Daily Average..................	1929	1,642	2,179	190	51	6	4,068	5,919

FALL

Traffic Census

DAILY AVERAGE

Station	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
Upper Niagara Falls Bridge..	Going into States....................	1928	3,229	4,928	74	34	....	8,265	
		1929	3,289	5,442	99	108	....	8,938	
	Coming into Canada.................	1928	2,678	6,000	71	33	1	8,783	
		1929	3,324	4,971	80	82	....	8,457	
	Total for one week, Oct. 10-16th...	1928	5,907	10,928	145	67	1	17,048	
	Total for one week, Oct. 9-15th...	1929	6,613	10,413	179	190	....	17,395	
	Daily Average..................	1928	844	1,561	21	10	....	2,436	3,401
	Daily Average..................	1929	945	1,487	26	27	....	2,485	3,246
Lewiston Bridge	Going into States....................	1928	395	1,062	63	....	2	1,522	
		1929	410	1,186	148	....	....	1,744	
	Coming into Canada.................	1928	330	1,016	71	....	2	1,419	
		1929	454	1,183	145	2	....	1,784	
	Total for one week, Oct. 10-16th...	1928	725	2,078	134	....	4	2,941	
	Total for one week, Oct. 9-15th...	1929	864	2,369	293	2	....	3,528	
	Daily Average..................	1928	104	297	19	....	....	420	870
	Daily Average..................	1929	124	338	42	....	....	504	1,054
	Total for the four bridges..........	1928	21,604	47,170	1,487	1,068	81	71,410	
	Total for the four bridges..........	1929	23,958	56,867	2,100	1,228	259	84,412	

CIVIC HOLIDAY, August 2nd, 3rd and 4th

Traffic Census

DAILY AVERAGE

Station	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
2-2	Maidstone, traffic west	1929	2,036	1,879	98	7	2	4,022	6,107
2-2	Maidstone, traffic east of, on Highway No. 2	1929	1,128	1,746	49	15	2	2,940	3,254
3-1	Maidstone, traffic east of, on Highway No. 3	1929	1,650	1,143	106	6	5	5,767	7,861
2-18	Long Branch	1929	10,621	2,769	568	146	22	14,126	16,243
2-19	Danforth Avenue at Old Markham Road	1929	12,300	561	648	278	51	13,838	17,419
2-20	Danforth Avenue at Old Kingston Road	1929	13,135	1,868	643	129	17	15,792	20,982
3A-3a	Ridgeway Road at Garrison Road	1929	2,257	5,723	123	49	8	8,160	8,890
3A-3b	Garrison Road at Ridgeway Road	1929	2,085	7,575	130	50	10	9,840	10,042
5-1	At Islington	1929	10,880	681	540	88	12	12,201	14,782
5-2	At Cooksville	1929	9,630	734	530	43	12	10,949	13,251
8-1	South End Corner	1929	6,483	4,161	482	137	21	11,284	12,353
11-1	At Langsing	1929	12,466	788	539	55	25	13,873	15,222
11-2	Langstaff	1929	12,261	705	353	55	12	13,386	15,913

CIVIC HOLIDAY August 3rd, 4th and 5th —Continued

Traffic Census

DAILY AVERAGE

Station	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
Peace Bridge....	Going into United States..............	1929	2,192	17,448	83	298	....	20,021	
	Coming into Canada..................	1929	2,145	21,163	86	332	....	23,726	
	Total for three days..............	1929	4,337	38,611	169	630	....	43,747	
	Daily Average..................	1929	1,446	12,870	57	216	....	14,583	15,299
Lower Niagara Falls Bridge...	Going into United States..............	1929	2,408	4,240	53	63	4	6,768	
	Coming into Canada..................	1929	1,956	4,118	56	65	4	6,199	
	Total for 2 days, Aug. 4th and 5th..	1929	4,364	8,358	109	128	8	12,967	
	Daily Average..................	1929	2,182	4,179	55	64	4	6,484	6,815
Upper Niagara Falls Bridge..	Going into United States..............	1969	1,569	4,967	14	96	2	6,648	
	Coming into Canada..................	1929	1,527	5,255	16	21	2	6,821	
	Total for two days, Aug. 4th and 5th	1929	3,096	10,222	30	117	4	13,469	
	Daily Average..................	1929	1,548	5,111	15	59	2	6,735	7,331
Lewiston Bridge	Going into United States..............	1929	677	1,283	37	5	....	2,002	
	Coming into Canada..................	1929	608	1,463	3	2	....	2,076	
	Total for three days..............	1929	1,285	2,746	40	7	....	4,078	
	Daily Average..................	1929	428	915	13	3	....	1,359	1,735

LABOUR DAY—August 31st, 1st and 2nd September, 1929

Traffic Census

DAILY AVERAGE

Station No.	Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
2-2	Maidstone	1928	2,289	5,967	151	27	5	8,439	10,280
		1929	2,305	6,425	104	28	2	8,864	9,978
2-18	Long Branch	1928	10,571	9,678	611	351	27	21,238	22,039
		1929	11,556	8,957	674	188	20	21,395	22,574
2-19	At Markham Road	1928	16,876	3,036	906	262	60	21,140	21,380
		1929	14,405	1,425	853	314	49	16,046	17,688
2-20	At Old Kingston Road	1928	10,824	2,568	601	107	16	14,116	15,153
		1929	13,856	3,225	656	146	22	17,905	20,091
3-1	Maidstone	1928	4,236	6,883	327	24	4	11,474	12,248
		1929	3,189	3,902	207	......	15	7,313	8,234
5-1	Islington	1928	13,939	2,293	543	122	15	16,912	19,687
		1929	12,567	2,379	661	87	9	15,704	18,267
5-2	Cooksville	1928	11,460	2,393	469	48	13	14,383	17,777
		1929	12,036	2,318	566	54	15	14,989	17,312
8-1	South End Corner	1928	5,355	11,256	424	135	24	17,194	19,515
		1929	4,974	10,161	396	124	19	15,674	18,651
11-2	Langstaff	1928	9,052	1,099	354	18	9	10,532	12,304
		1929	10,655	1,033	405	22	8	12,123	13,978
3a-3b	Garrison Road at Ridgeway Road	1928	1,131	7,907	131	36	5	9,210	11,575
		1929	1,201	10,386	95	47	3	11,732	15,105
3ab-3	Ridgeway Road at Garrison Road	1928	1,155	6,402	72	36	5	7,670	11,051
		1929	1,036	7,939	100	41	4	9,120	12,471

LABOUR DAY—August 31st, 1st and 2nd September, 1929

Traffic Census

DAILY AVERAGE

Bridge	Direction	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
			Ontario	Foreign					
Peace Bridge	Going into the States	1929	1,132	23,882	52	229	......	25,295	
	Going into Canada	1929	1,297	26,113	87	266	19	27,782	
	Total for three days		2,429	49,995	139	495	19	53,077	
	Daily Average		810	16,665	46	165	6	17,692	19,253
Lower Niagara Falls Bridge	Going into the States	1929	2,613	10,421	67	103	1	13,205	
	Going into Canada	1929	2,415	8,673	72	80	1	11,241	
	Total for three days		5,028	19,094	139	183	2	24,446	
	Daily Average		1,676	6,365	46	61	1	8,149	8,098
Upper Niagara Falls Bridge	Going into the States	1929	752	11,342	3	19	......	12,116	
	Going into Canada	1929	1,542	13,590	19	17	......	15,168	
	Total for three days		2,294	24,932	22	36	......	27,284	
	Daily Average		765	8,311	7	12	......	9,095	13,274
Lewiston Bridge	Going into the States	1929	445	4,186	16	3	......	4,650	
	Going into Canada	1929	484	3,875	10	4	......	4,373	
	Total for three days		929	8,061	26	7	......	9,023	
	Daily Average		310	2,687	9	2	......	3,008	3,567

Appendix No. 14

COUNTY ROAD TRAFFIC CENSUS—1928 and 1929

Daily Average

Station and Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
		Ontario	Foreign					
Brant County—Summer:								
Brant 1a—Townline Road at junction Cockshutt Road	1928	61	2	9	....	19	91	117
	1929	58	2	19	....	13	92	115
Brant 1b—Cockshutt Road at junction of Townline Road	1928	218	7	25	....	21	271	485
	1929	281	4	33	....	16	334	661
Brant 2a—Brantford-Galt Road at Shipman's Corners	1928	504	19	57	7	8	595	947
	1929	562	10	60	8	5	645	1,152
Brant 2b—Dundas Street at Shipman's Corners	1928	55	1	10	....	5	71	102
	1929	87	....	9	....	4	100	177
Brant 3a—Burford Road at New Durham Road	1928	351	14	43	....	7	415	729
	1929	254	22	105	1	5	387	506
Brant 3b—New Durham Road at Burford Road	1928	151	4	19	....	....	174	296
	1929	184	12	40	1	2	239	655
Brant 4a—Paris-Ayr Road at Keg Lane	1928	279	3	21	....	22	325	568
	1929	Not taken	....	....	....	....	....	....
Brant 4b—Keg Lane west of Ayr Road	1928	129	2	9	....	11	151	282
	1929	Not taken	....	....	....	....	....	....
2-14a—Onondaga Road at Cainsville	1928	358	15	53	1	17	444	806
	1929	382	13	47	7	13	462	786
24-2a—Scotland Road at Oakland	1928	432	15	63	....	17	527	789
	1929	436	11	64	....	13	524	847
Brant County—Fall:								
Brant 1a—Townline Road at Cookshutt Road	1928	60	....	4	....	11	75	118
	1929	73	1	13	....	9	96	111
Brant 1b—Cockshutt Road at Townline Road	1928	172	2	16	....	15	205	1,104
	1929	183	3	28	....	9	223	324
Brant 2a—Brantford-Galt Road at Shipman's Corners	1928	483	6	59	6	10	564	1,029
	1929	529	8	69	8	7	621	939
Brant 2b—Dundas Street at Shipman's Corners	1928	48	....	14	....	6	68	86
	1929	94	2	8	....	7	111	155
Brant 3a—Burford Road at New Durham Road	1928	373	5	40	....	12	430	753
	1929	269	3	80	....	10	362	505
Brant 3b—New Durham Road at Burford Road	1928	164	1	18	....	....	183	303

	1929	102	1	17	....	....	120	197
2-14a—Onondaga Road at Cainsville	1928	305	4	54	4	22	389	678
	1929	273	9	43	16	18	359	638
24-2a—Scotland Road at Oakland	1928	409	5	82	....	18	514	575
	1929	380	5	72	4	10	471	628
BRUCE COUNTY—SUMMER:								
Bruce 1a—15 Sideroad, Township of Annabel at Sauble Road	1929	75	6	3	....	5	89	183
Bruce 1b—Sauble Road, Township of Annabel at 15 Sideroad	1929	298	24	8	....	8	338	845
Bruce 2a—S. of Southampton, Southampton-Kincardine Road	1928	447	49	19	5	9	529	841
	1929	502	67	28	1	8	606	1,131
Bruce 2b—S. of Southampton, Paisley Road	1928	218	13	6	1	5	243	333
	1929	258	21	13	....	3	295	441
Bruce 3a—Owen Sound-Southampton Road at junction of Hepworth-Wiarton Road	1928	337	47	24	3	24	435	813
	1929	454	81	29	3	2	569	1 051
Bruce 3b—Hepworth-Wiarton Road at junction of Owen Sound-Southampton Road	1928	215	29	14	1	33	292	576
	1929	259	39	15	1	1	315	493
4a-1a—Chesley Road at Hanover Road	1928	166	9	10	....	28	213	291
	1929	148	4	12	....	20	184	225
9-4a—Teeswater Road at junction of Provincial Highway No. 9	1928	100	13	23	1	4	141	156
	1929	163	16	28	....	10	217	332
BRUCE COUNTY—FALL:								
Bruce 1a—Southampton-Kincardine Road, south of Southampton	1928	299	11	16	2	10	338	595
	1929	Not taken	....	....	....	....	....	....
Bruce 1b—Paisley Road, south of Southampton	1928	102	2	4	....	7	115	181
	1929	Not taken	....	....	....	....	....	....
Bruce 2a—Owen Sound-Southampton Road at junction of Hepworth-Wiarton Road	1928	308	18	26	1	7	360	588
	1929	Not taken	....	....	....	....	....	....
Bruce 2b—Hepworth-Wiarton Road at junction of Owen Sound-Southampton Road	1928	151	6	8	....	5	170	263
	1929	Not taken	....	....	....	....	....	....
4a-1a—Chesley Road at Hanover Road	1928	136	1	4	....	19	160	227
	1929	181	....	16	....	16	213	430
9-4a—Teeswater Road at junction of Provincial Highway No. 9	1928	119	2	17	....	6	144	214
	1929	148	2	20	....	4	174	197

COUNTY ROAD TRAFFIC CENSUS—1928 and 1929—Continued

DAILY AVERAGE

Station and Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
		Ontario	Foreign					
CARLETON COUNTY—SUMMER:								
Carleton 1a—Morrisburg-Ottawa Road at junction of Metcalfe Road	1928	569	50	70	7	57	753	1,095
	1929	767	49	77	5	43	941	1,403
Carleton 1b—Metcalfe Road at Morrisburg-Ottawa Road	1928	293	23	50	6	37	409	520
	1929	461	17	44	5	24	551	711
Carleton 2—Morrisburg-Ottawa Road at Lot 3, Con. 3, Gloucester Township	1928	811	57	124	3	34	1,029	1,412
	1929	903	86	145	3	25	1,162	1,685
Carleton 3a—Stittsville-Carp Road at West Huntley Road	1928	209	6	19	....	49	283	358
	1929	280	10	25	....	48	363	471
Carleton 3b—West Huntley Road at Stittsville-Carp Road	1928	19	....	2	....	7	28	40
	1929	22	....	2	....	6	30	48
Carleton 4a—Almonte-Carp Road at Stittsville-Carp Road	1928	148	14	18	....	34	214	273
	1929	175	11	20	....	22	228	312
Carleton 4b—Stittsville-Carp Road at Almonte-Carp Road	1928	298	16	28	1	58	401	511
	1929	370	19	32	....	40	461	771
Carleton 5a—Bowesville Road at Townline Road	1928	42	1	5	....	12	60	87
	1929	62	1	5	....	12	80	130
Carleton 5b—Townline Road between Manotick and Metcalf Townships at Bowesville Road	1928	72	2	7	....	19	100	141
	1929	97	2	8	....	18	125	219
Carleton 6a—Townline Road at River Road	1928	206	5	19	....	69	299	383
	1929	251	2	16	....	44	313	528
Carleton 6b—River Road at Townline Road	1928	121	3	13	....	43	180	219
	1929	154	1	10	....	42	207	381
Carleton 7a—River Road at Bowesville Road	1928	56	1	75	....	15	147	181
	1929	217	4	96	....	6	323	782
Carleton 7b—Bowesville Road at River Road	1928	627	33	108	1	28	797	870
	1929	895	29	172	....	13	1,109	1,291
Carleton 8a—Franktown Road at Richmond Village	1928	223	5	34	....	24	286	628
	1929	319	6	42	....	18	385	479
Carleton 8b—Richmond Road at Richmond Village	1928	613	9	55	....	66	743	2,198
	1929	468	9	61	....	50	588	752
Carleton 9a—County Road between Lots 6 and 7, east of Bridgeview, traffic north and south	1929	148	5	18	....	18	189	326

Carleton 9b—River Road, No. 16, east of Bridgeview, traffic east and west	1929	34	1	2	....	6	43	63
15-6a—Richmond Road at Bell's Corners	1928	391	15	49	....	17	472	1,324
	1929	358	12	38	....	10	418	701
17-5a—Galetta Road at Pakenham Road	1928	518	23	38	2	14	595	854
	1929	358	14	23	2	10	407	445
17-5b—Pakenham Road at Galetta Road	1928	283	8	24	1	29	345	496
	1929	120	3	5	1	17	146	184
17-6a—County Road at Lots 15, 16, Cons. 3 and 4, March Township	1928	276	15	30	1	19	341	574
	1929	936	23	29	....	11	999	1,791
CARLETON COUNTY—FALL:								
Carleton 1a—Morrisburg-Ottawa Road at Metcalfe Road	1928	603	24	76	4	42	749	1,370
	1929	680	28	138	4	36	886	1,315
Carleton 1b—Metcalfe Road at Morrisburg-Ottawa Road	1928	296	7	47	4	35	389	567
	1929	413	7	101	4	30	555	662
Carleton 2—Morrisburg-Ottawa Road at Lot 3, Con. 3, Gloucester Township	1928	746	32	151	2	33	964	1,694
	1929	775	50	145	2	26	998	1,856
Carleton 3a—Stittsville-Carp Road at West Huntley Road	1928	166	3	17	....	37	223	324
	1929	173	3	24	....	85	285	316
Carleton 3b—West Huntley Road at Stittsville-Carp Road	1928	12	....	1	....	6	19	26
	1929	13	1	2	....	4	20	34
Carleton 4a—Almonte-Carp Road at Stittsville-Carp Road	1928	79	5	11	....	16	111	222
	1929	104	3	12	....	13	132	195
Carleton 4b—Stittsville-Carp Road at Almonte-Carp Road	1928	213	5	19	....	30	267	543
	1929	222	3	22	....	29	276	413
Carleton 5a—Bowesville Road at Townline Road	1928	37	....	6	....	17	60	89
	1929	48	1	5	....	7	61	76
Carleton 5b—Townline between Manotick and Metcalfe Townships at Bowesville Road	1928	65	....	8	....	21	94	152
	1929	89	1	8	....	14	112	169
Carleton 6a—Townline Road at River Road	1928	153	1	21	....	60	235	334
	1929	176	....	21	....	55	252	364
Carleton 6b—River Road at Townline Road	1928	98	....	10	....	45	153	237
	1929	107	....	12	....	37	156	224
Carleton 7a—River Road at Bowesville Road	1928	16	2	73	....	1	92	123
	1929	121	5	111	....	14	251	395
Carleton 7b—Bowesville Road at River Road	1928	553	17	141	....	32	743	1,513
	1929	577	9	146	....	29	761	1,008
Carleton 8a—Franktown Road at Richmond Village	1928	227	7	20	....	28	282	391
	1929	296	8	34	....	18	356	461
Carleton 8b—Richmond Road at Richmond Village	1928	378	10	32	....	54	474	735
	1929	432	7	49	....	35	523	759

COUNTY ROAD TRAFFIC CENSUS—1928 and 1929—Continued

Daily Average

Station and Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
		Ontario	Foreign					
Carleton 9a—River Road, traffic east and west, east of Bridgeview	1929	153	3	13	....	14	183	246
Carleton 9b—County Road between Lots 6 and 7, east of Bridgeview, traffic north and south	1929	47	....	3	....	6	56	71
15-6a—Richmond Road at Bell's Corners	1928	325	6	28	....	13	372	820
	1929	276	4	41	....	9	330	555
17-5a—Galetta Road at Lots 20, 21, Cons. 3 and 4, Fitzroy Township	1928	284	6	18	....	7	315	360
	1929	177	2	15	....	8	202	236
17-5b—Pakenham Road at Galetta Road	1928	74	1	6	....	6	87	119
	1929	38	1	4	....	5	48	60
17-6a—County Road between Lots 15, 16, Cons. 3 and 4, March Township	1928	290	3	15	....	14	322	677
	1929	307	5	28	....	9	349	485
DUFFERIN COUNTY—SUMMER:								
Dufferin 1a—Arthur Road at Grand Valley Road	1928	241	6	48	....	22	317	387
	1929	267	8	22	....	12	309	483
Dufferin 1b—Grand Valley Road at Arthur-Orangeville Road	1928	209	8	28	....	19	264	332
	1929	257	8	20	2	11	298	452
Dufferin 1c—Bellwood Road at intersection of Grand Valley and Arthur	1928	50	1	23	....	9	83	141
	1929	76	2	11	....	4	93	128
Dufferin 2a—Hillsburg Road at Reading	1928	145	5	9	....	2	161	271
	1929	202	7	14	....	2	225	378
Dufferin 2b—Fergus-Orangeville Road at Reading	1928	237	13	17	....	5	272	453
	1929	326	16	26	....	8	376	667
Dufferin 3a—Primrose-Alliston Road at junction Marsfield Road	1928	439	3	29	....	18	489	623
	1929	197	15	15	....	14	241	374
Dufferin 3b—Marsfield Road at junction of Primrose-Alliston Road	1928	200	1	13	....	9	223	344
	1929	84	7	10	....	11	112	124
10-3a—Rockley's Road, Lots 5, 6, Con. 11, West Mono Twp.	1928	156	2	226	....	5	389	526
	1929	188	2	28	....	4	222	350

10-4a—Shelburne-Collingwood Road north of Shelburne.	1928	350	7	19	....	30	406	753
	1929	381	10	29	....	23	443	701
DUFFERIN COUNTY—FALL:								
Dufferin 1a—Arthur Road at Grand Valley Road........	1928	321	3	31	....	21	376	706
	1929	240	1	31	....	15	287	416
Dufferin 1b—Grand Valley Road at Arthur Road........	1928	316	3	28	....	27	374	763
	1929	223	1	30	....	18	272	402
Dufferin 1c—Bellwood Road at Grand Valley...........	1928	78	....	5	....	8	91	151
	1929	71	1	8	....	5	85	106
Dufferin 2a—Hillsburg Road at Reading...............	1928	144	2	16	1	2	165	351
	1929	104	1	18	....	1	124	168
Dufferin 2b—Fergus-Orangeville Road at Reading........	1928	239	4	31	....	6	280	556
	1929	194	3	28	....	4	229	366
Dufferin 3a—Primrose-Alliston Road at Marsfield Road...	1928	145	....	16	....	8	169	316
	1929	155	2	19	....	13	189	257
Dufferin 3b—Marsfield Road at Primrose-Alliston Road...	1928	50	....	6	....	3	59	94
	1929	66	....	10	....	8	84	99
10-3a—Hockley's Road at Lots 5, 6, Con. 11, West Mono Twp..................................	1928	107	2	302	....	4	415	593
	1929	147	1	35	....	8	191	235
10-4a—Shelburne-Collingwood Road north of Shelburne..	1928	202	2	20	....	20	244	313
	1929	225	3	48	....	24	300	373
DUNDAS COUNTY—SUMMER:								
Dundas a—Crysler Road at Morewood................	1928	279	5	29	....	174	487	570
	1929	391	10	51	....	131	583	690
Dundas 2b—Chesterville Road at Morewood...........	1928	246	5	28	....	147	426	470
	1929	341	12	47	....	102	502	591
Dundas 3a—Williamsburg-Chesterville Road at Road to Gallingertown...........................	1928	165	8	12	....	47	232	264
	1929	155	11	18	....	50	234	315
Dundas 3b—Road to Gallingertown at Williamsburg-Chesterville Road........................	1928	27	1	1	....	52	81	125
	1929	32	1	4	....	60	97	163
31-2a—Chesterville Road south of Winchester..........	1928	225	5	22	....	40	292	377
	1929	291	16	34	....	68	409	514
DUNDAS COUNTY—FALL:								
Dundas 2a—Crysler Road at Morewood...............	1928	280	5	34	....	137	456	542
	1929	309	9	56	....	100	474	577
Dundas 2b—Chesterville Road at Morewood...........	1928	246	5	33	....	124	408	470
	1929	274	8	51	....	93	426	521
Dundas 3a—Chesterville-Williamsburg Road at junction of Road to Gallingertown..................	1928	146	5	12	....	32	195	296
	1929	156	9	18	....	38	221	270

COUNTY ROAD TRAFFIC CENSUS—1928 and 1929—Continued

DAILY AVERAGE

Station and Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
		Ontario	Foreign					
Dundas 3b—Road to Gallingertown at junction of Chesterville-Williamsburg Road	1928	27	1	4	....	45	77	99
	1929	30	2	4	....	38	74	109
31 2a—Chesterville Road south of Winchester	1928	206	7	25	....	49	287	407
	1929	192	7	36	....	27	262	303
ELGIN COUNTY—SUMMER:								
Elgin 1a—County Road No. 44 at Straffordville	1928	479	11	82	....	24	596	903
	1929	477	13	59	....	15	564	1,076
Elgin 1b—County Road No. 38 at Straffordville	1928	389	7	82	....	40	518	594
	1929	400	11	70	....	27	508	683
Elgin 2a—St. Thomas-Port Stanley Road at Union	1928	1,939	211	118	....	8	2,276	4,145
	1929	2,102	271	118	....	5	2,496	5,090
Elgin 2b—Sparts Road at Union	1928	367	36	46	....	8	457	792
	1929	479	57	41	....	8	585	770
Elgin 3a—Aylmer-Harrietsville Road at Townline of Malahide and South Dorchester Twps.	1928	377	7	61	....	13	458	565
	1929	342	12	68	....	9	431	579
Elgin 3b—Springfield Road at junction of Aylmer-Harrietsville Road	1928	191	3	25	....	6	225	258
	1929	195	7	33	....	3	238	285
Elgin 4—Wellington Road at junction of Townline of Southwold, Yarmouth Twps.	1928	248	7	32	....	28	315	472
	1929	258	6	57	....	20	341	454
Elgin 5a—Sheddon-Port Stanley Road at Fingal	1928	249	12	21	....	6	288	661
	1929	379	23	34	....	13	449	878
Elgin 5b—Talbot Road at Fingal	1928	352	18	31	....	11	412	734
	1929	456	16	46	....	15	533	778
Elgin 6—Road between Lots 8 and 9, Yarmouth Twp. at junction of Edgeware Road	1928	137	....	13	....	7	157	176
	1929	Not taken	....	....	....	....	....	....
Elgin 7a—Iona-Melbourne Road at junction of Dutton Road	1928	139	5	12	....	7	163	255
	1929	148	11	15	....	9	183	303

Elgin 7b—Dutton Road at junction of Iona-Melbourne Road	1928	114	5	11		8	138	183
	1929	99	6	11		7	123	173
Elgin 8a—Wardsville-Rodney Road at junction of County Road No. 6 (Clachan Road)	1928	104	8	10		12	134	222
	1929	115	8	9		7	139	232
Elgin 8b—Wardsville-Clachan Road at junction of Wardsville-Rodney Road	1928	60	5	6		5	76	130
	1929	87	8	7		2	104	169
Elgin 9a—Rodney-New Glasgow Road at junction Rodney-West Lorne Road	1928	495	18	61		25	599	733
	1929	567	262	71	1	19	920	1,339
Elgin 9b—Rodney-West Lorne Road at junction Rodney-New Glasgow Road	1928	189	6	21	1	6	223	296
	1929	167	12	31		4	214	276
3-5a—Dutton-Tyreconnell Road at Wallacetown	1928	Under construction						
	1929	384	18	54		17	473	803
3-6½a—Fingal Road, west limits of St. Thomas, at M.C.R. Viaduct	1928	Not taken						
	1929	214	5	23		5	247	279
3-6½bPort Stanley Road west of St. Thomas at junction Road to Fingal	1928	Not taken						
	1929	707	38	41		5	791	1,752
3-7a—Belmont Road at New Sarum	1928	149	5	9		5	168	299
	1929	168	3	14		8	193	303
3-8a—Bayham Road at Provincial Highway No. 3	1928	115	4	18		8	145	237
	1929	130	10	26		6	172	296
ELGIN COUNTY—FALL:								
Elgin 1a—County Road No. 44 at Straffordville	1928	354	8	61		17	440	577
	1929	329	3	64		12	408	441
Elgin 1b—County Road No. 38 at Straffordville	1928	351	8	66		32	457	547
	1929	337	4	68		23	432	495
Elgin 2a—St. Thomas-Port Stanley Road at Union	1928	716	27	89		13	845	1,518
	1929	700	23	91		22	836	1,216
Elgin 2b—Sparta Road at Union	1928	291	14	40		17	362	546
	1929	292	8	44		21	365	462
Elgin 3a—County Road No. 39 (Aylmer Harrietsville Road) at County Road No. 52	1928	399	2	50		12	463	575
	1929	320	2	49		12	383	456
Elgin 3b—County Road No. 52 (Springfield traffic) at County Road No. 39	1928	272	2	28		7	309	466
	1929	177	1	28		6	212	222
Elgin 4—County Road No. 25 (Wellington Road) at Townline Southwold-Yarmouth Twps.	1928	260	5	21		26	312	480
	1929	972	136	102		21	1,231	2,491

COUNTY ROAD TRAFFIC CENSUS—1928 and 1929

Daily Average

Station and Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
		Ontario	Foreign					
Elgin 5a—Shedden-Port Stanley Road at Fingal	1928	277	3	46	......	22	348	515
	1929	291	6	51	......	16	364	419
Elgin 5b—Talbot Road at Fingal	1928	420	6	56	......	28	510	676
	1929	411	9	52	......	19	491	542
Elgin 6—Road between Lots 8 and 9, Yarmouth Twp. at Edgeware Road	1928	131	2	18	......	17	168	194
	1929	Not taken	......	......	......	......	......	......
Elgin 7a—County Road No. 14 (Iona-Melbourne) at County Road No. 13	1928	124	1	7	1	10	143	211
	1929	148	3	13	......	24	188	207
Elgin 7b—County Road No. 13 (Dutton Road at County Road No. 14	1928	101	1	6	......	10	118	172
	1929	84	2	7	......	18	111	133
Elgin 8a—County Road No. 3 (Wardsville-Rodney Road) at County Road No. 6	1928	125	3	12	1	12	153	227
	1929	108	3	8	......	9	128	167
Elgin 8b—County Road No. 6 (Wardsville-Clachan Road) at County Road No. 3	1928	85	2	9	......	9	105	142
	1929	76	2	6	......	10	94	118
Elgin 9a—County Road No. 3 (Rodney-New Glasgow Road) at County Road No. 2	1928	590	7	57	......	43	697	792
	1929	471	14	56	......	30	571	661
Elgin 9b—County Road No. 2 (Rodney-West Lorne Road) at County Road No. 3	1928	189	5	17	......	4	215	339
	1929	186	3	32	......	10	231	263
3—5A—Dutton-Tyrconnell Road at Wallacetown	1928	341	5	50	......	28	424	503
	1929	384	10	39	......	30	463	578
3-6½a—Fingal Road at Provincial Highway No. 3	1928	465	6	32	......	28	531	800
	1929	322	7	28	......	6	363	590
3-6½b—Port Stanley Road at Provincial Highway No. 3	1928	269	3	23	......	19	314	558
	1929	335	3	23	1	5	367	635
3-7a—Belmont Road at New Sarum	1928	149	3	17	......	6	175	279
	1929	140	4	25	......	5	174	227
3-8a—Bayham Road at Provincial Highway No. 3, Lot 107, Malahide Twp.	1928	112	3	15	......	11	141	261
	1929	109	2	20	......	5	136	226

ESSEX COUNTY—SUMMER:								
Essex 1a—Tecumseh Road at Stoney Point	1928	602	209	41	....	41	893	1,646
	1929	462	181	40	....	28	711	1,530
Essex 1b—Comber Road at Stoney Point	1928	282	48	16	....	27	373	718
	1929	240	62	21	....	14	337	677
Essex 2a—Cotton Road at junction of Leamington-Staples Road	1928	82	3	8	....	4	97	187
	1929	79	1	14	....	4	98	125
Essex 2b—Ninth Concession Road easterly at Leamington-Staples Road	1928	52	2	5	....	7	66	130
	1929	29	....	3	....	9	41	72
Essex 2c—Leamington-Staples Road at junction of Cotton Road	1928	321	13	39	....	14	387	722
	1929	212	8	32	....	13	265	397
Essex 3a—Townline between Colchester North and Malden Townships at junction of Pike Road	1928	398	204	58	6	8	674	1,628
	1929	553	221	68	1	7	850	2,154
Essex 3b—Pike Road at junction of Townline between Colchester North and Malden Townships	1928	145	37	20	....	4	206	476
	1929	145	32	21	1	1	200	439
Essex 4a—Tecumseh Road at junction of Pilette Road	1928	2,637	442	427	68	26	3,600	4,831
	1929	1,245	164	280	9	12	1,710	2,030
Essex 4b—Pilette Road southerly from Tecumseh Road	1928	Under construction.						
	1929	2,067	292	236	11	19	2,625	3,856
Essex 5a—River Road at Townline between Anderdon and Sandwich Townships	1928	1,099	776	84	....	8	1,967	6,819
	1929	427	227	83	....	13	750	1,993
Essex 5b—Anderdon-Sandwich West Townline at junction of River Road	1928	298	25	38	1	15	377	779
	1929	802	418	88	....	12	1,320	2,976
Essex 6a—Staples-Leamington Road at Staples	1928	226	16	32	....	5	279	563
	1929	160	10	23	....	10	203	331
Essex 6b—Townline Road between Tilbury West and Mersea Townships at Staples	1928	285	18	40	....	8	351	730
	1929	227	13	30	....	14	284	530
Essex 7a—Anderdon-Malden Townline at junction of Anderdon-Colchester Townline	1928	36	5	4	....	4	49	140
	1929	104	26	22	....	5	157	328
Essex 7b—Anderdon-Colchester Townline at junction of Anderdon-Malden Townline	1928	448	201	62	6	14	731	1,734
	1929	595	255	81	1	10	942	2,140
2-1a—Howard Avenue at Provincial Highway No. 2	1928	1,506	850	270	8	2	2,636	4,741
	1929	794	276	159	5	5	1,239	2,150
2-3a—Belle River-Cottom Road at Woodslee	1928	372	42	58	....	15	487	850
	1929	322	29	55	....	12	418	666

COUNTY ROAD TRAFFIC CENSUS—1928 and 1929—Continued

DAILY AVERAGE

Station and Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
		Ontario	Foreign					
3-2a—Division Road at junction of Provincial Highway No. 3, north of Cottam	1928	659	356	67	....	2	1,084	2,884
	1929	773	478	68	....	....	1,319	3,272
ESSEX COUNTY—FALL:								
Essex 1a—Tecumseh Road at Stoney Point	1928	403	66	40	5	47	561	997
	1929	446	125	60	....	41	672	1,179
Essex 1b—Comber Road at Stoney Point	1928	205	17	18	....	27	267	474
	1929	219	25	43	....	28	315	488
Essex 2a—Cottam Road at junction of 9th Concession Road and Leamington-Staples Road	1928	54	2	11	....	4	71	116
	1929	66	2	10	....	2	80	110
Essex 2b—Ninth Concession Road easterly at Leamington-Staples Road	1928	42	3	11	....	8	64	90
	1929	46	4	24	....	10	84	110
Essex 2c—Leamington-Staples Road at junction of Cottam Road and Ninth Concession Road	1928	114	1	26	....	15	156	122
	1929	237	7	75	....	56	375	418
Essex 3a—Townline between Colchester North and Malden Townships at Pike Road	1928	304	50	53	4	8	419	829
	1929	299	54	52	4	8	417	908
Essex 3b—Pike Road at junction of Townline Road between Colchester North and Malden Townships	1928	134	11	22	....	8	175	263
	1929	146	11	21	....	10	188	290
Essex 4a—Tecumseh Road at junction of Pilette Road	1928	2,282	173	421	27	20	2,923	3,756
	1929	2,033	145	390	20	21	2,609	3,570
Essex 4b—Pilette Road at junction of Tecumseh Road, traffic south	1928	294	4	37	....	16	351	503
	1929	369	20	49	....	14	452	650
Essex 5a—River Road at Townline between Anderdon and Sandwich West Townships	1928	296	44	62	....	6	408	639
	1929	687	238	98	....	3	1,026	2,201
Essex 5b—Anderdon and Sandwich West Townline at junction of River Road	1928	538	186	67	....	10	801	1,941
	1929	256	20	41	....	8	325	609

Essex 6a—Staples-Leamington Road at Staples	1928	94	2	21	....	17	134	149
	1929	166	8	50	....	14	238	261
Essex 6b—Townline Road between Tilbury West and Mersea Townships at Staples	1928	159	5	27	....	38	229	255
	1929	211	9	58	....	21	299	362
Essex 7a—Anderdon-Malden Townline at junction of Anderdon-Colchester Townline	1928	72	4	9	....	4	89	140
	1929	83	15	16	1	3	118	241
Essex 7b—Anderdon-Colchester Townline at junction of Anderdon-Malden Townline	1928	345	57	48	4	18	472	880
	1929	344	76	67	4	14	505	1,110
2-1a—Howard Avenue at Provincial Highway No. 2	1928	572	122	136	3	3	836	1,392
	1929	706	....	120	2	4	832	1,781
2-3a—Belle River-Cottam Road at Woodslee	1928	279	21	176	....	78	554	678
	1929	671	592	136	15	10	1,424	2,332
3-2a—Division Road north of Cottam at Provincial Highway No. 3	1928	385	116	51	....	7	559	939
	1929	382	109	70	....	4	565	984
FRONTENAC COUNTY—SUMMER:								
Front 1a—Kingston Mills Road at Tuttle's Hill	1928	204	22	23	3	3	255	452
	1929	199	20	16	1	4	240	382
Frontenac 1b—Sterrington Road at Tuttle's Hill	1928	226	38	73	2	4	343	413
	1929	441	61	88	4	9	603	1,050
Frontenac 2a—Harrowsmith-Yarker Road at Shibley's Corners	1928	78	5	7	....	7	97	148
	1929	126	13	19	....	3	161	316
Frontenac 2b—Portland Road at Shibley's Corners	1928	156	15	12	1	9	193	437
	1929	118	9	16	....	3	146	242
Frontenac 3a—Bath Road at road leading to Westbrook	1928	379	44	30	4	15	472	594
	1929	445	39	30	1	10	525	957
Frontenac 3b—Road leading to Westbrook at Bath Road	1928	154	19	13	....	10	196	218
	1929	156	11	14	....	5	186	276
Frontenac 4a—Bellrock Road at County Road No. 77, south of Verona	1928	69	6	4	....	26	105	114
	1929	83	8	23	....	16	130	147
Frontenac 4b—County Road No. 77, south of Verona at Bellrock Road	1928	281	40	24	1	41	387	627
	1929	273	32	39	....	25	369	572
2-29a—Portland Road at Cataraqui Corners	1928	434	39	54	2	36	565	813
	1929	404	31	58	2	18	513	652
FRONTENAC COUNTY—FALL:								
Frontenac 1a—Kingston Mills Road at Tuttle's Hill	1928	132	4	15	2	7	160	417
	1929	107	3	16	2	1	129	269
Frontenac 1b—Storrington Road at Tuttle's Hill	1928	201	5	73	2	13	294	427
	1929	188	5	45	2	10	250	290

COUNTY ROAD TRAFFIC CENSUS—1928 and 1929—Continued

DAILY AVERAGE

Station and Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
		Ontario	Foreign					
Frontenac 2a—Harrowsmith-Yarker Road at Shibley's Corners	1928	69	1	12	....	9	91	152
	1929	140	5	23	....	11	179	242
Frontenac 2b—Portland Road at Shibley's Corners	1928	104	2	13	....	12	131	208
	1929	98	5	14	....	6	123	148
Frontenac 3a—Bath Road at road leading to Westbrook	1928	233	9	33	3	13	291	524
	1929	256	14	26	1	13	310	522
Frontenac 3b—Road leading to Westbrook at Bath Road	1928	105	4	13	1	7	130	215
	1929	91	7	17	....	10	125	198
Frontenac 4a—Bellrock Road at County Road No. 77, ½ mile south of Verona	1928	82	1	5	....	27	115	159
	1929	97	2	19	....	25	143	183
Frontenac 4b—County Road No. 77, ½ mile south of Verona	1928	225	5	17	....	41	288	481
	1929	251	7	36	....	34	328	422
2–29a—Portland Road at Cataraqui Corners	1928	378	8	42	2	24	454	711
	1929	405	9	72	2	27	515	641
GLENGARRY COUNTY—SUMMER:								
Glengarry 1a—Vankleek Hill Road at McCrimmon	1928	158	17	14	....	90	279	470
	1929	206	24	14	3	69	316	543
Glengarry 1b—Road west of McCrimmon	1928	29	1	4	....	41	75	102
	1929	55	1	2	....	60	118	151
Glengarry 1c—Road north and south of McCrimmon	1928	22	1	4	....	25	52	89
	1929	281	26	18	2	127	454	848
2–37a—Alexandria Road at Lancaster	1928	300	85	34	2	49	470	909
	1929	322	112	73	2	35	544	608
GLENGARRY COUNTY—FALL:								
Glengarry 1a—Vankleek Hill Road at McCrimmon	1928	94	9	10	....	52	165	214
	1929	119	8	12	2	41	182	202
Glengarry 1b—Road west from McCrimmon	1928	22	1	....	....	41	64	74
	1929	26	1	2	....	41	70	83
Glengarry 1c—Road north and south from McCrimmon	1928	105	9	13	....	99	226	245
	1929	143	10	15	2	94	264	299
2–37a—Alexandria Road at Lancaster	1928	230	44	31	1	36	342	434
	1929	198	55	49	2	25	329	385

GREY COUNTY—SUMMER:									
10-5a—Durham-Singhampton Road at Flesherton	1928	886	27	79	9	53	1,054	1,403
	1929	1,200	62	120	4	83	1,469	1,857
GREY COUNTY—FALL:								
10-5a—Durham-Singhampton Road at Flesherton	1928	923	1	113	9	114	1,160	1,635
	1929	1,241	19	171	8	87	1,526	1,816
HALDIMAND COUNTY—SUMMER:								
Haldimand 1a—Indian Line at junction of Road to Springvale	1928	126	2	16		28	172	248
	1929	149	4	18		26	197	276
Haldimand 1b—Road to Springvale at junction Indian Line	1928	102	3	13		11	129	214
	1929	110	3	14	1	10	138	188
Haldimand 2a—Cheapside Road at Selkirk-Nanticoke Road	1928	325	12	14		15	366	905
	1929	269	18	23		11	321	865
Haldimand 2b—Selkirk-Nanticoke Road at junction of Cheapside Road	1928	185	5	14		19	223	497
	1929	325	19	28		14	386	1,039
3-12a—Hagersville-Rainham Road at Nelles Corners	1928	328	14	51		6	399	588
	1929	323	19	51		5	398	480
3-13a—Canboro Road at Canboro Corners	1928	208	16	27		11	262	442
	1929	258	22	33		9	322	620
6-3a—Ohsweken Road at Provincial Highway No. 6	1928	51	2	9		15	77	102
	1929	77	2	35		7	121	158
HALDIMAND COUNTY—FALL:								
Haldimand 1a—Indian Line at junction of Road to Springvale	1928	158	3	18		32	211	273
	1929	165	3	19		24	211	321
Haldimand 1b—Road to Springvale at junction of Indian Line	1928	129	3	13		11	156	232
	1929	113	3	13		9	138	213
Haldimand 2a—Cheapside Road at Selkirk-Nanticoke Road	1928	187	2	19		16	224	385
	1929	117	3	12		15	147	172
Haldimand 2b—Selkirk-Nanticoke Road at Cheapside Road	1928	133	1	16		15	165	235
	1929	130	4	16		17	167	213
3-12a—Hagersville-Rainham Road at Nelles Corners	1928	300	4	52		9	365	436
	1929	292	10	51		13	366	430
3-13a—Canboro Road at Canboro Corners	1928	211	6	20		15	252	496
	1929	250	15	36		11	312	430

COUNTY ROAD TRAFFIC CENSUS—1928 and 1929

DAILY AVERAGE

Station and Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
		Ontario	Foreign					
HALTON COUNTY—SUMMER:								
Halton 1a—Middle Road at Merton	1928	108	3	29	....	5	145	312
	1929	133	2	28	....	3	166	333
Halton 1b—Bronte Sideroad at Merton	1928	452	23	55	....	8	538	1,091
	1929	550	36	90	1	6	682	1,294
2-15a—Guelph Line Road at Provincial Highway No. 2	1928	201	6	33	....	1	241	396
	1929	192	5	40	....	1	238	282
5—3a—County Road at Trafalgar	1928	595	13	87	....	8	703	1,297
	1929	643	22	120	1	3	789	1,219
5-4a—Brant Street at Provincial Highway No. 5	1928	327	19	26	1	3	375	815
	1929	342	39	49	....	2	432	789
HALTON COUNTY—FALL:								
Halton 1a—Middle Road at Merton	1928	88	....	20	....	10	118	154
	1929	112	3	23	....	1	139	182
Halton 1b—Bronte Sideroad at Merton	1928	428	22	66	....	17	533	1,077
	1929	396	25	73	....	7	501	907
2-15a—Guelph Line Road at Toronto-Hamilton Highway	1928	135	....	33	....	2	170	259
	1929	119	1	29	....	....	149	165
5-3a—County Road at Trafalgar, north and south	1928	601	12	137	....	9	759	1,502
	1929	526	6	114	....	4	650	1,004
5-4a—Brant Street at junction of Dundas Street	1928	325	11	46	....	1	383	733
	1929	160	13	22	....	1	196	378
25-1a—Boyne-Drumquin Road at Boyne	1928	Under construction.						
	1929	Not taken.						
HASTINGS COUNTY—SUMMER:								
Hastings 1—Maynooth Road at Bannockburn	1928	166	16	28	....	12	222	249
	1929	184	20	21	....	11	236	306
Hastings 2a—Frankford-Foxboro Road at junction of County Road No. 5	1928	90	2	9	1	13	115	145
	1929	139	2	13	1	10	165	264
Hastings 2b—County Road No. 5 at junction of Frankford-Foxboro Road	1928	45	....	4	2	11	62	69
	1929	77	..	7	1	11	96	131
Hastings 3a—Frankford-Trenton Road at Frankford	1928	624	21	95	3	91	834	985
	1929	717	54	149	5	127	1,052	1,215

Hastings 3b—Frankford-Wallbridge Road at Frankford...	1928	516	16	82	2	92	708	805
	1929	509	13	89	2	69	682	800
Hastings 4a—County Road No. 1 at Crookston Corners...	1928	486	41	43	4	41	615	597
	1929	431	38	29	2	26	526	841
Hastings 4b—County Road No. 9 at Crookston Corners...	1928	149	6	13	2	32	202	245
	1929	121	3	8	....	19	151	229
14-4a—Hastings Road at Foxboro....................	1928	271	19	25	....	14	329	485
	1929	430	33	34	....	7	504	729
14-5a—County Road No. 10 at Marmora..............	1928	799	102	87	6	100	1,094	1,212
	1929	1,200	81	116	8	63	1,468	2,874
HASTINGS COUNTY—FALL:								
Hastings 1—Maynooth Road at Bannockburn...........	1928	162	2	20	....	13	197	241
	1929	170	1	53	....	8	232	245
Hastings 2a—Frankford-Foxboro Road at Lots 30 and 31, Sidney Twp..........................	1928	99	1	9	1	13	123	256
	1929	98	1	16	1	10	126	188
Hastings 2b—County Road No. 5 at junction of Frankford-Foxboro Road........................	1928	62	....	6	2	11	81	141
	1929	56	1	10	2	8	77	121
Hastings 3a—Frankford-Trenton Road at Frankford......	1928	603	4	116	5	134	862	1,023
	1929	558	10	124	3	83	778	891
Hastings 3b—Frankford-Wallbridge at Frankford........	1928	457	2	93	4	94	650	717
	1929	437	9	90	2	63	601	685
Hastings 4a—County Road No. 1, at Crookston Corners..	1928	393	11	36	5	36	481	754
	1929	482	3	29	3	26	543	665
Hastings 4b—County Road No. 9, at Crookston Corners..	1928	135	4	14	1	27	181	202
	1929	95	1	5	....	16	117	140
14—4a—Hastings Road at Foxboro..................	1928	281	6	31	....	9	327	533
	1929	272	5	33	....	12	322	420
14-5a—County Road No. 10 at Marmora..............	1928	Not taken	....	....	....	....	....	....
	1929	717	10	92	4	66	889	1,030
HURON COUNTY—SUMMER:								
Huron 1—Wingham-Teeswater Road at Lots 20, 21, Con. 8, Turnberry Twp........................	1928	377	20	40	....	20	457	677
	1929	442	25	39	1	17	524	1,131
Huron 2a—Goderich Road at Amberley................	1928	441	128	18	....	27	614	768
	1929	563	136	18	1	9	727	1,116
Huron 2b—Lucknow Road at Amberley................	1928	308	38	15	....	29	390	502
	1929	398	58	16	....	8	480	693
Huron 3a—Wingham-Listowel Road at Brussels-Wroxeter Road..................................	1928	147	5	13	1	8	174	315
	1929	235	7	17	....	5	264	470

COUNTY ROAD TRAFFIC CENSUS—1928 and 1929—Continued

DAILY AVERAGE

Station and Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
		Ontario	Foreign					
Huron 3b—Brussels-Wroxeter Road at Wingham-Listowel Road	1928	162	4	16	1	7	190	290
	1929	206	6	19	1	5	237	450
Huron 4a—Wincheslea-Berryland Road at Kirkton	1928	183	4	31	2	29	249	294
	1929	198	2	38	....	17	255	304
Huron 4b—Russelldale-Elginfield Road at Kirkton	1928	268	12	44	3	37	364	415
	1929	373	14	73	....	27	487	594
Huron 5a—Clinton-Wingham Road at Belgrave	1928	373	20	26	....	19	438	611
	1929	513	32	35	....	14	594	1,670
Huron 5b—Brussels Road at Belgrave	1928	145	3	8	....	21	177	214
	1929	173	3	6	....	15	197	298
Huron 6—Blue-water Highway near Brewster	1928	471	141	28	3	16	659	1,391
	1929	559	216	36	5	10	826	2,949
Huron 6a—County Road No. 7 at junction of Bluewater Highway near Brewster	1928	280	43	18	2	9	352	696
	1929	319	58	27	3	8	415	900
4-5a—Bayfield-Seaforth Road at Brucefield	1928	435	21	58	....	28	542	841
	1929	Not taken	....	....	....	....	....	....
Owing to construction work above station was moved to Exeter and traffic on Grand Bend-Mitchell Road was taken	1929	528	29	50	3	52	662	1,231
8-11a—Lucknow Road south of Goderich Twp.	1928	70	2	4	....	8	84	152
	1929	118	10	18	....	5	151	303
HURON COUNTY—FALL:								
Huron 1—Teeswater-Wingham at Lots 20, 21, Con. 8, Turnbury Twp.	1928	358	7	31	....	44	440	531
	1929	381	12	38	....	28	459	686
Huron 2a—Goderich Road at Amberley	1928	257	15	18	....	23	313	334
	1929	350	17	23	....	15	405	512
Huron 2b—Lucknow Road at Amberley	1928	191	3	17	....	22	233	245
	1929	250	4	15	....	14	283	336
Huron 3a—Wingham-Listowel Road at Brussels-Wroxeter Road	1928	145	1	13	....	4	163	276
	1929	163	1	26	....	4	194	260

Huron 3b—Brussels-Wroxeter Road at Wingham-Listowel Road	1928	155	1	14	....	5	175	310
	1929	172	2	28	....	5	207	239
Huron 4a—Wincheslea-Berryland Road at Kirkton	1928	200	....	43	....	38	281	326
	1929	215	1	43	1	31	291	306
Huron 4b—Russelldale-Elginfield Road at Kirkton	1928	337	2	50	3	41	433	595
	1929	357	5	59	2	33	456	527
Huron 5a—Clinton-Wingham Road at Belgrave	1928	390	8	27	....	21	446	639
	1929	396	6	40	....	19	461	521
Huron 5b—Brussels Road at Belgrave	1928	161	1	8	....	19	189	317
	1929	158	2	16	....	13	189	222
Huron 6—Bluewater Highway near Brewster	1928	188	49	23	....	21	281	504
	1929	200	45	38	....	19	302	456
Huron 6a—County Road No. 7 at junction of Bluewater Highway	1928	104	16	16	1	14	151	226
	1929	119	28	31	....	15	193	225
4-5a—Bayfield-Seaforth Road at Brucefield	1928	330	7	49	....	48	434	511
	1929	343	10	53	....	34	440	558
8-11a—Lucknow Road, south of Goderich at Con. A, Lot 9, Goderich Twp.	1928	460	8	40	4	29	541	955
	1929	101	2	7	....	9	119	211
KENT COUNTY—SUMMER:								
Kent 1a—Chatham-Wallaceburg Road at junction of Mitchell Bay Road	1928	520	60	84	14	18	696	1,002
	1929	555	84	98	10	6	753	1,439
Kent 1b—Mitchell Bay Road at junction of Chatham-Wallaceburg Road	1928	128	8	25	....	14	175	242
	1929	157	15	22	....	14	208	366
Kent 2a—Kent Bridge-Harwich Road at junction of Northwood-Chatham Road	1928	116	4	20	....	23	163	199
	1929	205	18	22	....	8	253	418
Kent 2b—Northwood-Chatham Road at junction of Kent Bridge-Harwich Road	1928	70	1	16	....	14	101	142
	1929	80	7	14	....	4	105	123
Kent 3a—Port Lambton Road at junction of Wallaceburg-Walpole Island Road	1928	174	39	19	....	9	241	364
	1929	168	33	19	....	6	226	400
Kent 3b—Wallaceburg-Walpole Island Road at junction of Port Lambton Road	1928	287	55	31	2	19	394	685
	1929	212	35	21	2	14	284	499
Kent 4a—Merlin-Tilbury Road at Merlin	1928	753	70	109	....	61	993	1,110
	1929	617	51	101	....	33	802	858
Kent 4b—Townline Road between Tilbury East and Raleigh Townships	1928	631	29	139	....	65	864	983
	1929	578	19	119	....	40	756	851

COUNTY ROAD TRAFFIC CENSUS—1928 and 1929—Continued

DAILY AVERAGE

Station and Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
		Ontario	Foreign					
2-5a—Tupperville Road east of Chatham at Provincial Highway No. 2	1928	222	17	27	....	3	269	380
	1929	237	16	31	....	1	285	355
3-3a—Chatham Road at Cedar Springs	1928	Under construction.						
	1929	724	93	100	....	9	926	1,321
21-2a—Ridgetown-Highgate Road at Provincial Highway No. 21	1928	346	15	27	....	10	398	547
	1929	513	203	47	....	7	770	1,317
21-3a—Townline Road between Camden and Chatham Townships junction, Highway No. 21	1928	49	1	2	....	12	64	76
	1929	107	9	45	....	9	170	240
KENT COUNTY—FALL:								
Kent 1a—Chatham-Wallaceburg Road at junction of Mitchell Bay Road	1928	380	19	69	10	39	517	866
	1929	532	30	75	10	37	684	886
Kent 1b—Mitchell Bay Road at junction of Chatham-Wallaceburg Road	1928	135	7	22	....	63	227	326
	1929	116	3	27	....	56	202	233
Kent 2a—Kent Bridge-Harwich Road at junction of Northwood-Chatham Road	1928	151	3	24	....	24	202	285
	1929	155	2	37	....	11	205	266
Kent 2b—Northwood-Chatham Road at junction of Kent Bridge-Harwich Road	1928	87	1	11	....	18	117	131
	1929	67	....	18	....	9	94	107
Kent 3a—Port Lambton Road at junction of Wallaceburg-Walpole Island Road	1928	Under construction.						
	1929	Under construction.						
Kent 3b—Wallaceburg-Walpole Island Road at junction of Port Lambton Road	1928	Under construction.						
	1929	Under construction.						
Kent 4a—Merlin-Tilbury Road at Merlin	1928	958	31	99	....	101	1,189	1,719
	1929	925	23	118	....	72	1,138	2,046
Kent 4b—Townline Road between Tilbury East and Raleigh Townships	1928	692	4	81	....	130	907	1,186
	1929	764	11	175	....	91	1,041	1,659

2-5a—Tupperville Road east of Chatham at junction of Provincial Highway No. 2	1928	222	8	48	....	7	285	360
	1929	325	25	135	....	1	486	1,002
3-3a—Chatham Road at Cedar Springs	1928	296	10	82	....	15	403	451
	1929	393	30	65	....	17	505	630
21-2a—Ridgetown-Highgate Road at Provincial Highway No. 21	1928	423	20	42	....	20	505	971
	1929	673	34	66	....	17	790	1,126
21-3a—Townline Road between Camden and Chatham Townships at junction of Dresden-Thamesville Highway	1928	67	1	5	....	15	88	142
	1929	87	9	7	....	12	115	192
LAMBTON COUNTY—SUMMER:								
Lambton 1a—Road between Con. 10 and 11, Plympton Township, east of Townline at Aberarder	1928	85	71	7	3	5	171	314
	1929	79	61	5	1	4	150	316
Lambton 1b—Road between Lots 18 and 19, Plympton Township, at Aberarder, traffic west	1928	50	6	2	....	23	81	109
	1929	41	7	4	....	10	62	128
Lambton 2a—Port Lambton Road, east of Becher	1928	126	42	43	....	10	221	403
	1929	98	30	26	....	7	161	288
Lambton 2b—Wilkesport Road east of Becher	1928	115	14	47	....	12	188	281
	1929	178	8	27	....	8	221	357
Lambton 2c—Florence Road east of Becher	1928	55	6	8	....	12	81	163
	1929	44	1	13	....	1	59	93
Lambton 2d—Wallaceburg Road east of Becher	1928	171	34	28	....	12	245	388
	1929	232	31	26	....	6	295	537
Lambton 3a—Thedford-Ravenswood Road West (County Road No. 6) at junction of County Road No. 7	1928	265	150	22	1	13	451	790
	1929	235	28	27	....	11	301	543
Lambton 3b—County Road No. 7 at junction of County Road No. 6	1928	156	116	11	....	9	292	532
	1929	153	71	20	....	7	251	467
Lambton 3c—6th Concession Road at intersection of County Roads Nos. 6 and 7	1928	Not taken						
	1929	92	64	6	....	7	169	324
Lambton 4a—River Road at Port Lambton	1928	336	146	36	....	12	530	1,099
	1929	240	152	25	....	9	426	779
Lambton 4b—Florence Road at Port Lambton	1928	146	58	22	....	7	233	395
	1929	178	88	15	....	5	286	626
Lambton 5—St. Clair River Road at Froomfield	1928	407	82	38	8	6	541	851
	1929	408	113	42	7	4	574	971

COUNTY ROAD TRAFFIC CENSUS—1928 and 1929

DAILY AVERAGE

Station and Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
		Ontario	Foreign					
Lambton 6—St. Clair River Road at Lot 1, Front Con., Moore Township	1928	242	51	32	....	4	329	673
	1929	217	88	27	....	4	336	698
Lambton 7—County Road No. 5 (Lake Road) at junction of Sideroad, Lots 36, 37, Sarnia Township	1928	475	137	22	3	3	640	1,485
	1929	376	147	18	....	....	541	1,105
Lambton 8a—Plank Road (Wallaceburg traffic) at Lucasville	1928	149	8	11	1	4	173	245
	1929	182	4	15	....	6	207	299
Lambton 8b—Plank Road (Sarnia-Petrolia traffic) at Lucasville	1928	594	57	65	12	12	740	919
	1929	665	61	61	12	12	811	1,168
Lambton 9a—County Road No. 11 (Watford-Alvinston traffic) at County Road No. 3	1928	215	7	25	....	8	255	401
	1929	194	10	21	....	14	239	436
Lambton 9b—County Road No. 3 (Petrolia traffic) at County Road No. 11	1928	90	2	11	....	3	106	140
	1929	85	4	9	....	11	109	166
7-2a—East and west traffic at 24th Sideroad, east of Wisbeach	1928	226	302	15	2	5	550	937
	1929	354	361	30	3	4	752	1,324
LAMBTON COUNTY—FALL:								
Lambton 1a—Road between Cons. 10 and 11, Plympton Township, at Aberarder	1928	59	14	7	2	4	86	111
	1929	60	11	7	2	10	90	117
Lambton 1b—Road between Lots 18 and 19, Plympton Township, at Aberarder	1928	28	1	3	....	1	33	50
	1929	25	3	3	....	1	32	57
Lambton 2a—Port Lambton Road east of Becher at intersection of Wallaceburg Road	1928	76	15	26	....	9	126	182
	1929	79	12	12	....	7	110	149
Lambton 2b—Wilkesport Road east of Becher at intersection of Port Lambton Road	1928	147	5	29	....	14	195	319

	1929	221	6	23	....	10	260	364
Lambton 2c—Florence Road east of Becher at intersection of Florence Road	1928	36	1	7	....	4	48	65
	1929	55	1	33	....	3	92	126
Lambton 2d—Wallaceburg Road east of Becher at intersection of Wilkesport Road	1928	198	16	24	....	14	252	424
	1929	264	14	54	....	14	346	436
Lambton 3a—County Road No. 6 (Thedford-Ravenswood Road) at junction of County Road No. 7	1928	104	33	16	....	10	163	247
	1929	175	7	43	....	23	248	287
Lambton 3b—County Road No. 7 (Thedford-Grand Bend Road) at junction of County Road No. 6	1928	202	50	55	....	18	325	461
	1929	142	30	35	....	13	220	338
Lambton 3c—6th Concession Road at Thedford at intersection of County Roads Nos. 6 and 7	1928	Not taken	....	....	....	....	....	....
	1929	67	28	4	....	11	110	239
Lambton 4a—River Road at Port Lambton	1928	179	40	20	....	14	253	388
	1929	146	51	76	....	12	285	349
Lambton 4b—Florence Road at Port Lambton	1928	130	38	15	....	12	195	369
	1929	112	31	15	....	9	167	278
Lambton 5—St. Clair River Road at Froomfield	1928	312	38	37	6	9	402	616
	1929	332	31	34	7	8	412	542
Lambton 6—St. Clair River Road at Lot 1, Front Con., Moore Township	1928	176	24	21	....	5	226	421
	1929	158	41	27	....	7	233	375
Lambton 7—County Road No. 5 (Lake Road), junction of Sideroad, Lots 36, 37, Sarnia Township	1928	144	30	13	....	10	197	476
	1929	165	23	15	....	10	213	442
Lambton 8a—Plank Road (Wallaceburg traffic) at Lucasville	1928	183	4	13	....	8	208	319
	1929	233	9	18	....	4	264	344
Lambton 8b—Plank Road (Sarnia-Petrolia traffic) at Lucasville	1928	591	30	40	13	16	690	1,068
	1929	671	32	58	11	12	784	1,048
Lambton 9a—County Road No. 11 (Watford-Alvinston traffic) at County Road No. 3	1928	212	7	17	....	4	240	370
	1929	178	6	21	....	5	210	278
Lambton 9b—County Road No. 3 (Petrolia traffic) at County Road No. 11	1928	124	2	8	1	5	140	225
	1929	70	2	7	....	4	83	119
7-2a—North and south traffic at 24th Sideroad, west of Wisbeach	1928	270	169	21	3	3	466	795
	1929	284	202	36	2	6	530	890

COUNTY ROAD TRAFFIC CENSUS—1928 and 1929—Continued

DAILY AVERAGE

Station and Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
		Ontario	Foreign					
LANARK COUNTY—SUMMER:								
Lanark 1a—Townline Road to Ashton Station at junction of West Huntley Road	1928	5	...	...	...	18	23	35
	1929	5	...	...	1	12	18	30
Lanark 1b—West Huntley Road at Townline Road between Huntley and Ramsay Townships	1928	9	...	1	...	16	26	37
	1929	11	...	1	...	12	24	39
Lanark 2—Calabogie Road at White	1928	37	5	9	1	3	55	61
	1929	23	2	4	...	4	33	44
Lanark 3a—Almonte-Carp Road at junction of Almonte-West Huntley Road	1928	127	6	14	...	48	195	215
	1929	157	7	18	...	40	222	281
Lanark 3b—Almonte-West Huntley Road at junction of Almonte-Carp Road	1928	47	1	5	...	22	75	97
	1929	65	1	4	...	15	85	106
Lanark 4a—Westport Road at junction of Darcyville Road	1928	36	3	1	...	7	47	52
	1929	34	1	1	...	5	41	71
Lanark 4b—Darcyville Road at junction of Westport Road	1928	29	2	...	...	11	42	50
	1929	34	1	1	...	7	43	53
Lanark 5a—Franktown-Carleton Place Road, junction of Franktown-Richmond Road	1928	213	9	20	...	9	251	333
	1929	385	14	25	...	10	434	1,361
Lanark 5b—Franktown-Richmond Road at junction of Frantown-Carleton Place Road	1928	91	2	7	...	2	102	162
	1929	187	3	6	...	2	198	285
Lanark 6a—Perth-Lanark traffic at 3rd Line Bathurst	1929	421	19	34	...	31	505	887
Lanark 6b—3rd Line Bathurst traffic at Perth-Lanark Road	1929	320	17	22	...	29	388	490
15-5a—Smith's Falls-Carleton Place Road at Carleton Place	1928	412	19	36	...	37	504	618
	1929	660	28	33	...	30	751	801
29-3a—County Road at Lots 2 and 3, Con. 9, Township of Ramsay	1928	154	3	9	...	15	181	207
	1929	144	8	9	...	13	174	214
29-5a—County Road at Pakenham at intersection of Antrim Road and Highway No. 29	1928	174	5	23	...	80	282	339
	1929	210	8	231	...	64	513	555

LANARK COUNTY—FALL:								
Lanark 1a—Townline Road at Ashton Station at West Huntley Road	1928	13		4		13	30	41
	1929	18	1	8		17	44	48
Lanark 1b—West Huntley Road at Townline Road	1928	16		5		16	37	44
	1929	16		4		10	30	33
Lanark 2—Calabogie Road at White	1928	12	1			3	16	22
	1929	25	3	2		3	33	37
Lanark 3a—Almonte-Carp Road at Almonte-West Huntley Road	1928	106	5	9		38	158	231
	1929	122	2	14		40	178	212
Lanark 3b—Almonte-West Huntley Road at Almonte-Carp Road	1928	39	1	2		25	67	95
	1929	60	1	4		13	78	110
Lanark 4a—Westport Road at Darcyville Road	1928	21	1			8	30	39
	1929	28	3	7		9	47	68
Lanark 4b—Darcyville Road at Westport Road	1928	30	1			13	44	53
	1929	30	1	1		7	39	47
Lanark 5a—Franktown-Carleton Place Road at Franktown-Richmond Road	1928	244	8	20		8	280	537
	1929	340	5	47		22	414	628
Lanark 5b—Franktown-Richmond Road at Franktown-Carleton Place Road	1928	163	5	13		4	185	319
	1929	157	2	13		2	174	245
Lanark 6a—Perth-Lanark Road at junction of 3rd Line, Bathurst Township	1928	299	3	27		38	367	593
	1929	581	6	73		61	721	895
Lanark 6b—Third Line, Bathurst Township, at junction of Perth-Lanark Road	1928	214	3	10		38	265	349
	1929	285	2	36		34	357	461
15-5a—Smith's Falls-Carleton Place Road at Carleton Place	1928	346	7	28		42	423	619
	1929	408	10	46		31	495	713
29-3a—County Road at Lots 2, 3, Con. 9, Township of Ramsay at Highway No. 29	1928	87		8		18	113	132
	1929	97	1	7		10	115	152
29-5a—County Road at Pakenham at Highway No. 29	1928	199	3	50		75	327	418
	1929	233	5	33		60	331	405
LEEDS COUNTY—SUMMER:								
2-31a—Rockport Road at Escott	1928	42	29	9		26	106	138
	1929	57	32	11		24	124	144
2-32a—Lynn Road west of Brockville at Provincial Highway No. 2	1928	92	4	12	1	16	125	178
	1929	113	8	21		10	152	160

COUNTY ROAD TRAFFIC CENSUS—1928 and 1929—Continued

DAILY AVERAGE

Station and Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
		Ontario	Foreign					
15-2a—Gananoque Road at Seeley's Bay	1928	194	36	12	....	6	248	328
	1929	165	45	17	....	9	236	402
15-3a—Rideau Ferry Road at Lombardy	1928	216	20	8	....	28	272	635
	1929	150	12	7	....	24	193	278
29-1a—Athens Road at Forthon	1928	74	39	13	....	5	131	285
	1929	117	24	13	....	3	157	210
29-2a—Phillipsville Road at Toledo	1928	118	4	11	....	42	175	230
	1929	150	11	15	....	28	204	335
29-2b—County Road No. 29 at Toledo	1928	44	2	5	....	24	75	91
	1929	61	3	4	....	16	84	112
LEEDS COUNTY—FALL:								
2-31a—Rockport Road at Escott	1928	49	6	10	....	25	90	106
	1929	68	8	11	....	19	106	201
2-32a—Lynn Road west of Brockville at Provincial Highway No. 2	1928	131	3	16	....	13	163	220
	1929	89	3	22	....	17	131	162
15-2a—Gananoque Road at Seeley's Bay	1928	172	7	12	....	8	199	327
	1929	130	8	11	....	5	154	185
15-3a—Rideau Ferry Road at Lombardy	1928	113	3	4	....	18	138	265
	1929	118	1	47	....	15	181	219
29-1a—Athens Road at Forthon	1928	82	19	11	....	7	119	196
	1929	34	11	5	....	3	53	67
29-2a—Phillipsville Road at Toledo	1928	107	1	6	....	43	157	257
	1929	125	2	10	....	26	163	220
29-2b—County Road No. 29 at Toledo	1928	46	....	4	....	19	69	104
	1929	40	....	2	....	9	51	67
LENNOX AND ADDINGTON COUNTY—SUMMER:								
Lennox and Addington 1a—Napanee Road at Adlophustown	1928	75	5	5	....	16	101	119
	1929	80	1	2	1	10	94	137
Lennox and Addington 1b—Bath Road at Adolphustown	1928	61	1	3	....	9	74	99
	1929	56	2	3	1	11	73	103

Lennox and Addington 2—North and South Road at Stella on Amherst Island	1928	46	....	5	....	64	115	133
	1929	56	....	2	....	71	129	157
Lennox and Addington 3a—County Road No. 4 at Milsap	1928	32	....	3	....	9	44	76
	1929	33	2	1	....	7	43	85
Lennox and Addington 3b—County Road No. 12 at Milsap	1928	76	4	8	....	15	103	146
	1929	57	4	7	....	5	73	157
Lennox and Addington 4a—Napanee-Yerker Road at east limits of Camden East Village	1928	196	7	22	1	25	251	347
	1929	263	12	121	....	16	412	474
Lennox and Addington 4b—Road between Lots 25 and 26, Camden Township, at east limits of Camden East Village	1928	137	6	11	1	15	170	199
	1929	139	7	95	....	9	250	344
Lennox and Addington 5—County Road No. 9, Town limits of Napanee	1929	238	7	46	4	21	316	359
2 27½a—Road between Lots 20, 21, North Fredericksburg Township, at Provincial Highwya No. 2	1928	229	9	87	....	25	350	510
	1929	268	6	46	....	16	336	378
LENNOX AND ADDINGTON COUNTY—FALL:								
Lennox and Addington 1a—Napanee Road at Adolphustown	1928	72	1	3	1	15	92	158
	1929	109	1	9	....	22	141	200
Lennox and Addington 1b—Bath Road at Adolphustown	1928	56	....	4	1	8	69	93
	1929	60	1	5	....	12	78	107
Lennox and Addington 2—North and South Road at Stella on Amherst Island	1928	49	....	5	....	66	120	151
	1929	85	....	2	....	55	142	168
Lennox and Addington 3a—County Road No. 4 at Milsap	1928	49	1	3	....	11	64	93
	1929	49	....	8	....	9	66	96
Lennox and Addington 3b—County Road No. 12 at Milsap	1928	51	2	5	....	10	68	104
	1929	69	1	13	....	9	92	129
Lennox and Addington 4a—Napanee-Yarker Road at east limits of Camden East Village	1928	217	5	29	....	26	277	385
	1929	231	7	128	....	47	413	451
Lennox and Addington 4b—Road between Lots 25, 26, Camden Township, at east limits of Camden East Village	1928	131	4	17	....	18	170	199
	1929	165	3	26	....	19	213	253
Lennox and Addington 5—County Road No. 9 at Town limits of Napanee	1929	178	4	31	....	28	241	323
2 27½a—Road between Lots 20, 21, North Fredericksburg Township, at Provincial Highway No. 2	1928	229	2	49	....	11	291	373
	1929	188	3	23	....	7	221	263

COUNTY ROAD TRAFFIC CENSUS—1928 and 1929

Daily Average

Station and Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
		Ontario	Foreign					
Lincoln County—Summer:								
Lincoln 1a—Canboro Road at Wellandport	1928	408	22	47	....	27	504	728
	1929	542	34	63	....	22	661	1,111
Lincoln 1b—Smithville Road at Wellandport	1928	253	14	31	....	7	305	568
	1929	365	23	43	....	7	438	854
Lincoln 1c—Forks Road at Wellandport	1928	268	14	35	....	12	329	534
	1929	378	24	44	....	12	458	837
Lincoln 2a—Smithville Road at St. Ann's	1928	206	8	40	....	16	270	444
	1929	259	16	39	....	8	322	627
Lincoln 2b—Beamsville Road at St. Ann's	1928	244	11	52	....	12	319	548
	1929	293	14	49	....	5	361	700
Lincoln 2c—Wellandport Road at St. Ann's	1928	241	12	45	....	10	308	526
	1929	303	19	55	....	5	382	737
Lincoln 3a—Smithville-Hamilton Road at junction of Smithville-Grimsby Road	1928	154	7	31	....	9	201	325
	1929	367	38	52	....	16	473	793
Lincoln 3b—Smithville-Grimsby Road at junction of Smithville-Hamilton Road	1928	262	25	43	....	29	359	623
	1929	198	11	26	....	1	236	435
8-2c—Niagara-on-the-Lake Road at St. David's	1928	403	93	66	1	17	580	651
	1929	234	79	62	2	19	396	439
8-3a—County Road at Jordan Corners, junction of Provincial Highway No. 8	1928	397	36	99	....	11	543	634
	1929	455	42	111	....	16	624	731
8-4a—Grimsby Park Road at Provincial Highway No. 8	1928	694	80	70	....	20	864	1,701
	1929	656	99	80	1	18	854	1,171
Lincoln County—Fall:								
Lincoln 1a—Canboro Road at Wellandport	1928	428	12	46	....	43	529	788
	1929	619	26	79	2	22	748	1,115
Lincoln 1b—Smithville Road at Wellandport	1928	252	6	30	....	15	303	556
	1929	391	15	49	....	7	462	733
Lincoln 1c—Forks Road at Wellandport	1928	282	8	33	....	20	343	574
	1929	406	12	52	....	10	480	684
Lincoln 2a—Smithville Road at St. Ann's	1928	210	4	36	....	12	262	424
	1929	251	11	40	....	10	312	530

Lincoln 2b—Beamsville Road at St. Ann's	1928	250	4	42	....	9	305	545
	1929	275	7	60	....	7	349	604
Lincoln 2c—Wellandport Road at St. Ann's	1928	235	5	45	....	12	297	519
	1929	265	11	58	....	9	343	591
Lincoln 3a—Smithville-Hamilton Road at junction of Smithville-Grimsby Road	1928	304	7	55	1	27	394	638
	1929	373	10	74	....	21	478	652
Lincoln 3b—Smithville-Grimsby Road at junction of Smithville-Hamilton Road	1928	131	2	19	....	6	158	277
	1929	200	3	35	....	7	245	361
8-2c—Niagara-on-the-Lake Road at St. Davids	1928	261	39	94	....	10	404	570
	1929	249	21	107	....	14	391	403
8-3a—County Road at Jordan Corners	1928	419	13	218	....	36	686	761
	1929	459	24	250	....	33	766	862
8-4a—Grimsby Park Road at Provincial Highway No. 8	1928	310	16	75	....	17	418	564
	1929	260	20	57	....	23	360	453
MIDDLESEX COUNTY—SUMMER:								
Middlesex 1—Graded Sideroad at Fanshaw	1928	492	14	75	2	18	601	1,018
	1929	485	8	67	....	15	575	846
Middlesex 2a—County Road No. 12 at Appin	1929	255	9	22	....	17	303	355
Middlesex 2b—County Road No. 13 at Appin	1929	125	5	9	....	9	148	177
Middlesex 3a—Nilestown-Belmont Road at junction of Harrietsville Road	1928	250	9	54	....	46	359	438
	1929	301	6	52	....	34	393	613
Middlesex 3b—Harrietsville Road at junction of Nilestown-Belmont Road	1928	63	1	11	....	14	89	99
	1929	72	2	14	....	8	96	146
Middlesex 4a—Strathburn-Alvinston Road at junction of Walker's Road	1928	185	4	18	....	21	228	384
	1929	198	8	22	....	13	241	430
Middlesex 4b—Walker's Road at junction of Strathburn-Alvinston Road	1928	58	1	6	....	8	73	116
	1929	58	2	9	....	5	74	100
Middlesex 5—Glencoe-Strathburn Road at Townline of Mosa and Ekfrid Townships	1928	401	16	40	....	37	494	698
	1929	390	24	43	....	27	484	603
Middlesex 6—Parkhill-Corbett Road at Townline of McGillivray and West Williams Townships north of Parkhill	1928	395	36	24	2	41	498	791
	1929	384	50	34	5	28	501	754
Middlesex 7a—County Road No. 19 at Komoka	1929	739	45	41	....	36	861	1,147
Middlesex 7b—County Road No. 55 at Komoka	1929	707	50	36	....	37	830	1,142
Middlexex 8a—County Road No. 38 at junction of Ilderton-Hyde Park Road	1928	337	13	36	4	28	418	524
	1929	214	5	25	....	14	258	310

COUNTY ROAD TRAFFIC CENSUS—1928 and 1929—Continued

DAILY AVERAGE

Station and Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
		Ontario	Foreign					
Middlesex 8b—Ilderton-Hyde Park Road (County Road No. 43) at junction of County Road No. 38	1928	274	12	25		25	336	499
	1929	262	6	40	3	21	332	352
Middlexex 9a—Aylmer Road at Hamilton Road	1928	Not taken						
	1929	174	5	20		5	204	348
Middlesex 9b—Hamilton Road at Aylmer Road	1928	Not taken						
	1929	308	8	32		7	355	620
2–6a—County Road at Wardsville	1928	257	23	29		19	328	558
	1929	287	18	48		17	370	486
2–7a—Strathroy Road at Christina	1928	87	5	13		13	118	160
	1929	113	7	18		9	147	198
2–9a—Wyton Road at junction of Provincial Highway No. 2	1928	130	7	23		3	163	280
	1929	136	9	19		2	166	250
4–3a—County Road at Cons. 4 and 5, London Township, north of London	1928	166	5	19		9	199	283
	1929	144	2	17		9	172	247
7–3a—Kerwood Road at Highway No. 7	1928	221	45	52		36	354	409
	1929	62	10	7		7	86	133
7–4a—Main Street at Parkhill	1928	667	119	75	6	71	938	1,193
	1929	639	76	52	6	56	829	947
22—1a—Poplar Hill—Delaware Road at Poplar Hill	1929	200	10	17		8	235	494
MIDDLESEX COUNTY—FALL:								
Middlex 1—Graded Sideroad at Fenshaw	1928	463	4	70		20	557	813
	1929	378	2	67		15	462	653
Middlesex 2a—County Road No. 12 at Appin	1929	241	5	23		29	298	342
Middlesex 2b—County Road No. 13 at Appin	1929	121	3	8		15	147	177
Middlesex 3a—County Road at No. 25 at Nilestown	1929	256	2	42		10	310	395
Middlesex 3b—London-Dorchester Road at Nilestown	1929	390	4	55		10	459	623
Middlesex 4a—County Road No. 14 at County Road No. 6	1928	148	6	15	1	33	203	355
	1929	173	3	19		13	208	334
Middlesex 4b—County Road No. 6 at County Road No. 14	1928	37	1	5		14	57	82
	1929	77	1	11		8	97	140
Middlesex 5—County Road No. 14 at junction of Townline of Mosa and Ekfrid Townships, R. 11, N.L.R., Con. 1, Mosa Township	1928	369	10	34	1	59	473	531

	1929	430	11	38	....	47	526	682
Middlesex 6—County Road No. 47, north of Parkhill	1928	299	18	35	....	58	410	528
	1929	314	24	44	....	57	439	529
Middlesex 8a—County Road No. 38 at County Road No. 43	1928	363	1	30	4	45	443	710
	1929	284	1	40	3	29	357	444
Middlesex 8b—County Road No. 43 at County Road No. 38	1928	200	....	17	....	24	241	331
	1929	190	1	30	....	23	244	306
Middlesex 9—County Road No. 21 at Brick Street	1928	612	2	85	....	38	737	1,090
	1929	900	2	117	1	25	1,045	1,352
MIDDLESEX COUNTY—FALL:								
2-6a—County Road at Wardsville, north and south traffic	1928	321	16	41	....	39	417	550
	1929	254	21	40	....	27	342	445
2-7a—Strathroy Road at Christina	1928	101	3	10	....	8	122	207
	1929	127	5	16	....	13	161	235
2-9a—Wyton Road at Provincial Highway No. 2	1928	129	5	30	....	2	166	295
	1929	124	3	22	....	2	151	232
4-3a—County Road, at Cons. 4 and 5, London Township, north of London	1928	166	1	19	2	8	196	296
	1929	119	1	18	....	7	145	260
7-3a—Kerwood Road at Highway No. 7	1928	110	16	19	....	22	167	188
	1929	79	8	18	....	18	123	170
7-4a—Main Street at Parkhill	1928	568	30	42	5	59	704	871
	1929	509	34	68	4	37	652	879
22-1a—Poplar Hill-Delaware Road at Poplar Hill	1928	225	3	11	1	11	251	541
	1929	169	5	14	....	11	199	268
NORFOLK COUNTY—SUMMER:								
Norfolk 1a—Simcoe-Port Dover Road at Vittoria Road	1928	1,231	181	103	7	9	1,531	3,011
	1929	1,491	118	144	11	12	1,776	3,456
Norfolk 1b—Vittoria Road at Simcoe-Port Dover Road	1928	531	51	56	3	7	648	1,033
	1929	710	47	84	5	9	855	1,632
Norfolk 2a—Waterford Road at Windham Centre	1928	186	1	37	....	14	238	276
	1929	249	7	43	....	13	312	425
Norfolk 2b—Teeterville Road at Windham Centre	1928	109	1	22	....	7	139	173
	1929	136	4	22	....	7	169	235
Norfolk 3a—County Road No. 9 at junction of County Road No. 8	1928	259	8	45	....	23	335	470
	1929	346	25	40	....	14	425	895
Norfolk 3b—County Road No. 8 at junction of County Road No. 9	1928	163	6	29	....	18	216	298
	1929	242	17	29	....	9	297	689
3-9a—County Road at Courtland	1928	280	7	64	....	37	388	441
	1929	369	13	86	....	27	495	775

COUNTY ROAD TRAFFIC CENSUS—1928 and 1929—Continued

DAILY AVERAGE

Station and Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
		Ontario	Foreign					
3-10a—Port Dover Road at Renton	1928	238	8	87	1	27	361	438
	1929	319	12	35	1	27	394	653
NORFOLK COUNTY—FALL:								
Norfolk 1a—Simcoe-Port Dover Road at Vittoria Road	1928	665	13	90	4	13	785	1,062
	1929	761	20	100	6	5	892	1,082
Norfolk 1b—Vittoria Road at Simcoe-Port Dover Road	1928	366	9	50	4	9	438	698
	1929	417	12	51	5	2	487	615
Norfolk 2a—Waterford Road at Windham Centre	1928	230	1	66	....	16	313	362
	1929	233	2	31	....	10	276	305
Norfolk 2b—Teeterville Road at Windham Centre	1928	132	....	49	....	8	189	233
	1929	145	1	22	....	5	173	221
Norfolk 3a—County Road No. 9 at junction of County Road No. 8	1928	240	4	117	....	22	383	537
	1929	207	4	42	....	21	274	351
Norfolk 3b—County Road No. 8 at junction of County Road No. 9	1928	149	1	27	....	15	192	244
	1929	124	3	28	....	10	165	218
3-9a—County Road at Courtland	1928	337	4	59	....	34	434	520
	1929	338	4	76	....	28	446	492
3-10a—Port Dover Road at Renton	1928	244	4	23	....	29	300	346
	1929	207	5	27	....	24	263	333
NORTHUMBERLAND AND DURHAM COUNTIES—SUMMER:								
Northumberland 1a—Trenton Road at Wooler	1928	384	12	62	....	45	503	719
	1929	449	15	58	....	25	547	713
Northumberland 1b—Frankford Road at Wooler	1928	183	4	38	....	24	249	313
	1929	237	8	36	....	16	297	362
Durham 1a—Newcastle-Lindsay Road at Kirby	1928	302	4	13	....	17	336	617
	1929	202	2	21	....	13	238	435
Durham 1b—Kendal Road at Kirby	1928	50	....	4	....	15	69	76
	1929	38	....	6	....	15	59	70
Durham 2—Kendal Road at Starkville	1928	120	3	7	....	29	159	241
	1929	99	....	6	....	18	123	233
2-23a—Canton Road at Welcome Corner	1928	366	27	51	....	18	462	694
	1929	255	23	42	....	20	340	607

NORTHUMBERLAND AND DURHAM COUNTIES—FALL:								
Durham 1a—Newcastle-Lindsay Road at Kirby	1928	328	....	15	1	16	360	627
	1929	178	....	26	....	17	221	275
Durham 1b—Kendal Road at Kirby	1928	37	....	2	....	12	51	81
	1929	45	....	3	....	12	60	86
Durham 2—Kendal Road at Starkville	1928	82	....	10	....	53	145	178
	1929	91	....	8	....	17	116	166
Northumberland 1a—Trenton Road at Wooler, east and west	1928	379	1	67	....	48	495	632
	1929	361	3	56	....	33	453	550
Northumberland 1b—Frankford Road at Wooler, north and South	1928	205	....	38	....	28	271	345
	1929	183	2	34	....	24	243	312
2-23a—Canton Road at Welcome Corner	1928	186	2	31	....	16	235	350
	1929	183	3	39	....	18	243	267
ONTARIO COUNTY—SUMMER:								
Ontario 1a—Scugog Road at junction of Port Perry-Nestleton Station Road	1928	308	6	27	....	23	364	683
	1929	418	7	25	....	11	461	1,098
Ontario 1b—Port Perry-Nestleton Station Road at junction of Scugog Road	1928	239	3	24	....	9	275	513
	1929	354	7	28	....	4	393	956
12-2a—Port Perry Road at Manchester Corners	1928	1,041	57	68	6	16	1,188	1,613
	1929	827	22	48	5	15	917	1,960
12-4a—Sutton Road south of Beaverton	1929	516	29	36	5	2	588	1,042
ONTARIO COUNTY—FALL:								
Ontario 1a—Scugog Road at junction of Port Perry-Nestleton Station Road	1928	242	2	22	....	26	292	443
	1929	182	1	22	....	9	214	322
Ontario 1b—Port Perry-Nestleton Station Road at junction of Scugog Road	1928	212	2	20	....	9	243	419
	1929	151	....	23	....	5	179	272
12-2a—Port Perry Road at Manchester Corners	1928	443	3	42	5	15	508	1,141
	1929	427	3	48	8	12	498	930
12-4a—Sutton Road south of Beaverton	1928	143	1	12	....	2	158	363
	1929	156	4	22	....	3	185	384
OXFORD COUNTY—SUMMER:								
Oxford 1a—Ingersoll-Tillsonburg Road at Salford	1928	552	57	68	....	66	743	1,022
	1929	593	52	133	5	52	835	1,092
Oxford 1b—Salford-Burgessville Road at Salford	1928	139	12	23	....	37	211	262
	1929	175	15	48	....	34	272	343

COUNTY ROAD TRAFFIC CENSUS—1928 and 1929

DAILY AVERAGE

Station and Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
		Ontario	Foreign					
Oxford 2a—Embro-Beachville Road at junction of County Road No. 17	1928	89	2	17	....	3	111	140
	1929	104	5	14	....	5	128	190
Oxford 2b—County Road No. 17 at junction of Embro-Beachville Road	1928	81	2	17	....	2	102	180
	1929	88	3	5	....	2	98	130
Oxford 3a—Harrington Road at junction of Embro Road	1928	131	2	18	....	23	174	268
	1929	128	3	25	....	17	173	202
Oxford 3b—Embro Road at junction of Harrington Road	1928	152	3	17	....	20	192	254
	1929	174	3	24	....	17	218	318
Oxford 4a—Woodstock-Tavistock Road at junction of County Road No. 17	1928	456	15	60	....	33	564	761
	1929	412	11	75	....	26	524	634
Oxford 4b—County Road No. 17 at junction of Woodstock-Tavistock Road	1928	154	2	12	....	16	184	234
	1929	442	14	47	1	16	520	762
2-10a—Lakeside Road at Thamesford	1928	293	19	54	....	36	402	561
	1929	294	19	61	....	32	406	549
2-10b—Governor's Road, traffic east of Thamesford	1928	13	....	5	....	4	22	32
	1929	29	1	3	....	11	44	55
2-12a—Burford Road at Eastwood	1928	167	9	36	....	10	222	300
	1929	169	15	74	2	7	267	336
OXFORD COUNTY—FALL:								
Oxford 1a—Ingersoll-Tillsonburg Road at Salford	1928	521	44	86	....	65	716	891
	1929	535	38	87	6	50	716	853
Oxford 1b—Salford-Burgessville Road at Salford	1928	168	11	34	....	38	251	307
	1929	172	10	38	....	32	252	302
Oxford 2a—Embro-Beechville Road at County Road No. 17	1928	99	1	19	....	5	124	146
	1929	113	1	19	....	4	137	159
Oxford 2b—County Road No. 17, at Embro-Beechville Road	1928	89	1	6	....	2	98	173
	1929	28	....	3	....	3	34	47
Oxford 3a—Harrington Road at Embro Road	1928	126	....	16	....	15	157	226
	1929	140	....	23	....	13	176	223

Oxford 3b—Embro Road at Harrington Road	1928	153	1	17		12	183	275
	1929	127		22		11	160	188
Oxford 4a—Woodstock-Tavistock Road at County Road No. 17	1928	639	13	79		49	780	1,133
	1929	581	7	85	1	31	705	916
Oxford 4b—County Road No. 17 at Woodstock-Tavistock Road	1928	152	3	16		25	196	344
	1929	23		4		3	30	53
2-10a—Lakeside Road at Thamesford	1928	251	9	47		32	339	392
	1929	247	7	53		29	336	417
2-10b—Governor's Road, traffic east of Thamesford	1928	41		4		7	52	70
	1929	36		6		7	49	86
2-12a—Burford Road at Eastwood	1928	166	5	24		9	204	283
	1929	190	4	62	1	6	263	314
PEEL COUNTY—SUMMER:								
Peel 1—Belfountain-Cheltenham Road at Belfountain	1928	288	2	35		39	364	920
	1929	758	27	33	3	21	842	2,589
Peel 2a—County Road No. 9 at Bolton	1928	398	4	58	2	25	487	527
	1929	376	5	52		17	450	648
Peel 2b—County Road No. 8 at Bolton	1928	819	8	101	3	49	980	1,173
	1929	875	12	112	1	42	1,042	1,511
Peel 3a—County Road No. 5 at Lots 10 and 11, Con. 6, Toronto Township	1928	533	4	72		13	622	1,377
	1929	895	10	92		6	1,003	2,730
Peel 3b—County Road No. 7 at Lots 10 and 11, Con. 6, Toronto Township	1928	373	4	65		9	451	826
	1929	417	4	67		6	494	922
PEEL COUNTY—FALL:								
Peel 1—Belfountain-Cheltenham Road at Belfountain	1928	261	2	35		44	342	847
	1929	298	3	29	3	29	362	597
Peel 2a—County Road No. 9 at Bolton	1928	340	1	51	3	23	418	478
	1929	326	1	49	1	21	398	563
Peel 2b—County Road No. 8 at Bolton	1928	726	3	102	2	47	880	925
	1929	843	3	137	1	56	1,040	1,684
Peel 3a—County Road No. 5 at Lots 10, 11, Con. 6, Toronto Township	1928	462	2	73		22	559	968
	1929	644	1	124		13	782	1,423
Peel 3b—County Road No. 7 at Lots 10, 11, Con. 6, Toronto Township	1928	634	2	69		24	729	1,906
	1929	335	1	98		13	447	539

COUNTY ROAD TRAFFIC CENSUS—1928 and 1929—Continued

DAILY AVERAGE

Station and Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
		Ontario	Foreign					
PERTH COUNTY—SUMMER:								
Perth 1a—Listowel-Elmira Road at junction Stratford-Dorking-Drayton Road	1928	99	2	14	....	32	147	177
	1929	144	4	16	4	26	194	321
Perth 1b—Stratford-Dorking-Drayton Road at junction Listowel-Elmira Road	1928	47	....	8	....	21	76	86
	1929	39	....	5	....	16	60	83
7-7a—Fairview Road south of Stratford at Provincial Highway No. 7	1928	175	5	9	....	7	196	321
	1929	214	5	16	....	5	240	396
7-8a—Tavistock Road at Shakespeare	1928	473	17	47	....	22	559	1,121
	1929	498	16	72	....	12	598	906
8-9a—St. Mary's Road east of Sebringville	1928	118	3	20	....	16	157	199
	1929	162	4	19	....	12	197	313
8-10a—County Road at Dublin junction of Provincial Highway No. 6	1928	299	14	43	....	93	449	569
	1929	384	16	59	....	73	532	692
23-3a—County Road No. 4 at Gowanstown	1928	100	....	4	....	18	122	254
	1929	Not taken						
PERTH COUNTY—FALL:								
Perth 1a—Listowel-Elmira Road at junction of Stratford-Dorking-Drayton Road	1928	102	....	9	....	28	139	159
	1929	137	1	19	....	41	198	219
Perth 1b—Stratford-Dorking-Drayton Road at junction of Listowel-Elmira Road	1928	44	....	4	....	23	71	109
	1929	42	....	4	....	24	70	85
7-7a—Fairview Road south of Stratford at Provincial Highway No. 7	1928	159	1	44	....	8	212	327
	1929	133	4	12	....	8	157	173
7-8a—Tavistock Road at Shakespeare	1928	552	9	61	....	22	644	1,229
	1929	628	7	97	4	30	766	1,070
8-9a—St. Mary's Road east of Sebringville	1928	644	8	87	....	126	865	152
	1929	122	2	16	....	17	157	221

8-10a—County Road at Dublin, junction of Provincial Highway No. 8	1928	322	...	31	3	83	439	624
	1929	383	7	48	...	80	518	678
23-2a—County Road No. 4 at Gowanstown	1928	174	2	8	...	3	187	474
	1929	76	...	7	...	10	93	121
PETERBOROUGH COUNTY—SUMMER:								
Peterborough 1a—Block Road at Norwood Road	1928	15	...	2	...	1	18	28
	1929	13	...	1	...	1	15	39
Peterborough 1b—Norwood Road at Block Road	1928	342	32	37	1	7	419	601
	1929	396	18	36	1	5	456	655
Peterborough 1c—Keene Road at Block Road	1928	49	1	9	...	4	63	88
	1929	36	...	5	...	2	43	65
7-19a—Chemong Road north of Highway No. 7	1928	434	40	36	...	11	521	560
	1929	873	76	65	1	12	1,027	1,605
28-2a—County Road south of Peterborough at Cons. 6 and 7, Monaghan Township	1928	39	...	2	...	2	43	59
	1929	53	2	6	...	7	68	92
PETERBOROUGH COUNTY—FALL:								
Peterborough 1a—Block Road at Norwood Road	1928	15	...	2	...	2	19	29
	1929	23	...	3	...	2	28	45
Peterborough 1b—Norwood Road at Block Road	1928	399	3	34	3	3	442	785
	1929	371	5	49	4	4	433	756
Peterborough 1c—Keene Road at Block Road	1928	44	...	6	...	1	51	71
	1929	36	...	8	...	1	45	58
7-19a—Chemong Road north of Highway No. 7	1928	455	2	54	...	15	526	1,194
	1929	329	4	50	...	10	393	427
28-2a—County Road at Cons. 6 and 7, Monaghan Township, south of Peterborough	1928	27	...	8	1	9	45	57
	1929	28	...	1	...	9	38	54
PRESCOTT COUNTY—SUMMER:								
Prescott 1a—County Road No. 9 at junction of County Road No. 10	1928	119	16	7	...	14	156	256
	1929	160	15	24	...	16	215	383
Prescott 1b—County Road No. 10 at junction of County Road No. 9	1928	155	21	19	...	22	217	331
	1929	209	20	30	...	26	285	526
17-9a—County Road 1 mile west of Alfred at junction of Provincial Highway No. 17	1928	41	4	6	...	77	128	164
	1929	77	8	18	...	111	214	273

COUNTY ROAD TRAFFIC CENSUS—1928 and 1929—Continued

DAILY AVERAGE

Station and Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
		Ontario	Foreign					
PRESCOTT COUNTY—FALL:								
Prescott 1a—County Road No. 9 at County Road No. 10, north and south	1928	117	8	10	....	13	148	270
	1929	121	7	13	....	10	151	241
Prescott 1b—County Road No. 10 at County Road No. 9, east	1928	153	11	13	....	20	197	346
	1929	175	15	20	....	22	232	367
17-9a—County Road 1 mile west of Alfred at junction of Provincial Highway No. 17	1928	45	3	6	....	60	114	155
	1929	69	7	29	....	74	179	213
PRINCE EDWARD COUNTY—SUMMER:								
Prince Edward 1a—High Shore Road at junction of Demorestville Road	1928	110	12	14	....	16	152	183
	1929	114	10	9	....	9	142	186
Prince Edward 1b—Demorestville Road at junction of High Shore Road	1928	192	5	24	....	34	255	331
	1929	168	15	25	....	20	228	329
Prince Edward 2a—County Road No. 1 at junction of Bay Road near Murray Bay	1928	212	5	34	....	39	290	371
	1929	Not taken						
14-1a—Wellington Road at Bloomfield at junction of Provincial Highway No. 14	1928	438	25	56	4	51	574	735
	1929	344	9	61	4	24	442	698
14-2a—County Road at Rossmore at junction of Provincial Highway No. 14	1928	216	8	42	1	21	288	369
	1929	302	10	56	....	4	372	456
PRINCE EDWARD COUNTY—FALL:								
Prince Edward 1a—High Shore Road at Demorestville	1928	110	1	20	....	25	156	208
	1929	84	1	11	....	15	111	145
Prince Edward 1b—Demorestville Road at High Shore Road	1928	190	1	28	....	41	260	352
	1929	147	1	23	....	17	188	304
Prince Edward 2a—County Road No. 1 at junction of Bay Road near Murray Bay	1928	222	2	67	1	60	352	365
	1929	77	2	40	....	2	121	136

14-1a—Wellington Road at Bloomfield at junction of Provincial Highway No. 14	1928	280	1	39	4	25	349	405
	1929	324	2	69	8	14	417	466
14-2a—County Road at junction of Provincial Highway No. 14	1928	220	5	63	....	28	316	393
	1929	373	1	93	3	9	479	665
RENFREW COUNTY—SUMMER:								
Renfrew 1—Renfrew-Douglas Road at McDougal	1928	179	9	14	....	23	225	310
	1929	199	9	15	....	18	241	309
Renfrew 2—Pembroke-Douglas Road at Rankin	1928	276	12	15	4	34	341	465
	1929	328	12	19	3	31	393	465
Renfrew 3—Westmeath Road at Lapasse Road	1928	34	....	4	....	19	57	106
	1929	37	....	5	....	13	55	75
Renfrew 3a—Lapasse Road at Westmeath Road	1928	36	....	4	....	17	57	89
	1929	31	1	3	....	13	48	70
17-1a—Beachburg Road at Provincial Highway No. 17	1928	342	21	18	1	49	431	844
	1929	200	14	12	....	20	246	293
17-3a—County Road at Lot 21, Con. 1, Admaston Township	1928	71	3	5	....	12	93	181
	1929	92	3	8	....	7	110	126
17-4a—Renfrew County Road half mile west of Arnprior	1928	86	6	10	....	45	147	179
	1929	150	8	12	....	25	195	213
RENFREW COUNTY—FALL:								
Renfrew 1—Renfrew-Douglas Road at McDougal	1928	130	4	14	....	13	161	292
	1929	119	2	15	....	13	149	210
Renfrew 2—Pembroke-Douglas Road at Rankin	1928	339	12	23	2	37	413	545
	1929	328	15	37	2	36	418	566
Renfrew 3—Westmeath Road at Lapasse Road	1928	25	....	6	....	18	39	70
	1929	267	3	19	1	27	317	412
Renfrew 3a—Lapasse Road at Westmeath Road	1928	29	....	2	....	17	48	49
	1929	157	1	10	....	21	189	252
17-1a—Beachburg Road at Lots 7, Cons. 1 and 11, Ross Township	1928	199	9	12	....	35	255	387
	1929	154	3	13	....	61	231	245
17-3a—County Road at Lot 21, Con. 1, Admaston Township	1928	59	1	8	....	6	74	98
	1929	148	3	14	....	5	170	226
17-4a—Renfrew County Road half mile west of Arnprior	1928	15	....	5	....	83	103	163
	1929	149	3	16	....	36	204	278
RUSSELL COUNTY—SUMMER:								
Russell 1a—Townline Road between Townships of Russell and Cumberland	1928	19	....	1	....	14	34	44
	1929	28	....	....	....	8	36	52

COUNTY ROAD TRAFFIC CENSUS—1928 and 1929

Daily Average

Station and Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
		Ontario	Foreign					
Russell 2a—Embrun-Casselman Road at Townline Road between Russell and Cambridge Townships...	1928	104	10	21	1	59	195	272
	1929	149	9	23	....	58	239	334
Russell 2b—Townline Road between Russell and Cambridge Townships at junction of Embrun-Casselman Road..........	1928	57	6	10	....	52	125	180
	1929	88	5	15	....	57	165	219
Russell County—Fall:								
Russell 1—Townline Road between Russell and Cumberland Township..........	1928	2	....	....	....	10	12	18
	1929	26	....	1	....	18	45	58
Russell 2a—Embrun-Casselman Road at Townline Road between Russell and Cambridge Township...	1928	107	5	33	....	62	207	384
	1929	117	7	15	....	42	181	257
Russell 2b—Townline Road between Russell and Cambridge Townships at the Embrun-Casselman Road..........	1928	50	2	25	....	53	130	231
	1929	65	4	11	....	41	121	145
Simcoe County—Summer:								
Simcoe 1a—Alliston Road at Cookstown..........	1928	371	7	42	2	34	456	637
	1929	405	7	47	2	25	486	563
Simcoe 1b—Bondhead Road at Cookstown..........	1928	405	10	50	2	38	505	755
	1929	512	10	50	2	28	602	858
Simcoe 2a—County Road No. 14 at junction of County Road No. 13, Lots 24, 25, Cons. 8, 9, Nottawasaga Township..........	1928	350	18	24	1	33	426	599
	1929	467	24	39	....	29	559	950
Simcoe 2b—County Road No. 13 at junction of County Road No. 14, Lots 24, 25, Cons. 8, 9, Nottawasaga Township..........	1928	245	14	14	....	36	309	423
	1929	277	17	20	....	37	351	617
Simcoe 3—Bradford-Bondhead Road at Bradford..........	1928	368	21	30	....	22	441	689
	1929	383	17	31	....	11	442	709

Simcoe 4a—County Road No. 9 at junction of County Road No. 7, Lots 21, 22, Con. 4, Sunnidale Township	1928	113	1	6	....	13	133	160
	1929	157	4	9	....	9	179	226
Simcoe 4b—County Road No. 7 at junction of County Road No. 9, Lots 21, 22, Con. 4, Sunnidale Township	1928	173	4	10	....	15	202	341
	1929	228	4	12	....	11	255	413
Simcoe 5a—County Road No. 1, at junction of County Road No. 10, Lots 5, 6, Con. 7, 8, Tecumseh Township	1928	368	2	34	....	32	436	1,064
	1929	308	9	38	....	10	365	549
Simcoe 5b—County Road No. 10 at junction of County Road No. 1, Lots 5, 6, Con. 7, 8, Tecumseh Township	1928	334	1	23	2	27	387	1,238
	1929	254	4	35	....	11	304	496
Simcoe 6a—Alliston-Cookstown Road at Camp Borden	1928	65	4	8	....	10	87	165
	1929	Under construction.						
Simcoe 6b—Camp Borden Road at Alliston-Cookstown Road	1928	207	13	105	....	19	344	488
	1929	Under construction.						
11-5a—Penetang Road at Crown Hill	1928	503	49	22	5	7	586	1,169
	1929	573	42	30	4	4	653	1,333
11-6a—County Road at south limits of Orillia	1928	311	13	36	....	15	375	621
	1929	348	10	30	1	26	415	550
11-7a—Sparrow Lake Road at Provincial Highway No. 11	1928	191	17	11	....	3	222	383
	1929	192	23	10	....	2	227	424
26-2a—Brentwood-Collingwood Road at Sunnidale Corners	1928	329	11	13	2	17	372	750
	1929	308	17	16	1	13	355	660
SIMCOE COUNTY—FALL:								
Simcoe 1a—Alliston Road at Cookstown	1928	501	1	51	2	34	589	1,180
	1929	641	5	74	1	34	755	1,560
Simcoe 1b—Bond Head Road at Cookstown	1928	502	1	51	2	39	595	1,142
	1929	653	5	70	1	39	768	1,368
Simcoe 2a—County Road No. 14, at Lots 24, 25, Cons. 8 and 9, Nottawasaga Township	1928	299	5	23	....	30	357	509
	1929	403	3	44	....	34	484	570
Simcoe 2b—County Road No. 13 at junction of County Road No. 14	1928	196	3	13	....	36	248	313
	1929	254	3	23	....	37	317	365
Simcoe 3—Bradford-Bondhead Road at Bradford	1928	408	2	44	....	23	477	801
	1929	406	3	51	....	20	480	749
Simcoe 4a—County Road No. 9 at Lots 21 and 22, Con. 4, Sunnidale Township	1928	100	....	68	....	19	187	230
	1929	102	....	8	....	9	119	135

COUNTY ROAD TRAFFIC CENSUS—1928 and 1929—Continued

DAILY AVERAGE

Station and Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
		Ontario	Foreign					
Simcoe 4b—County Road No. 7 at junction of County Road No. 9	1928	134	....	18	....	25	177	223
	1929	143	....	16	....	13	172	242
Simcoe 5a—County Road No. 1 at Lots 5 and 6, Cons. 7 and 8, Tecumseh Township	1928	204	....	28	....	13	245	352
	1929	216	1	36	....	11	264	309
Simcoe 5b—County Road No. 10 at junction of County Road No. 1	1928	181	....	23	....	9	213	326
	1929	153	1	58	....	8	220	268
Simcoe 6a—Alliston-Cookstown Road at Camp Borden	1928	347	....	22	3	21	393	594
	1929	439	3	36	....	12	490	594
Simcoe 6b—Camp Borden Road at junction of Alliston-Cookstown Road	1928	160	....	14	....	16	190	254
	1929	245	1	16	....	9	271	306
11-5a—Penetang Road at Crown Hill	1928	330	2	21	4	8	365	666
	1929	302	7	23	4	6	342	553
11-6a—County Road at south limits of Orillia	1928	243	....	34	1	28	306	356
	1929	653	21	74	7	25	780	1,174
11-7a—Sparrow Lake Road at Provincial Highway No. 11	1928	74	1	7	....	2	84	158
	1929	38	1	4	....	3	46	64
26-2a—Brentwood-Collingwood Road at Sunnidale Corners	1928	195	4	10	....	38	247	382
	1929	123	....	11	1	16	151	187
STORMONT COUNTY—SUMMER:								
Stormont 1a—Cornwall Road at Monklands	1928	229	12	17	....	52	310	401
	1929	287	15	49	....	39	390	431
Stormont 1b—Finch Road at Monklands	1928	288	13	20	1	61	383	494
	1929	307	17	49	....	38	411	568
STORMONT COUNTY—FALL:								
Stormont 1a—Cornwall Road at Monklands	1928	227	10	17	....	50	304	399
	1929	290	9	36	....	48	383	469
Stormont 1b—Finch Road at Monklands	1928	297	10	23	....	58	388	547
	1929	333	12	38	....	52	435	639

VICTORIA COUNTY—SUMMER:								
Victoria 1a—Bobcaygeon Road at junction of Downeyville Road	1928	488	53	32	....	38	611	815
	1929	551	63	30	1	25	670	1,050
Victoria 1b—Downeyville Road at junction of Bobcaygeon Road	1928	232	8	17	....	41	298	368
	1929	233	11	17	....	35	296	384
7–17a—Little Britain Road at West limits of Lindsay	1928	505	9	37	....	21	572	688
	1929	509	21	33	....	14	577	762
7–18a—Newcastle Road, south of Lindsay at Provincial Highway No. 7	1928	372	14	22	....	27	435	696
	1929	365	15	26	....	19	425	748
VICTORIA COUNTY—FALL:								
Victoria 1a—Bobcaygeon Road at junction of Downeyville Road	1928	311	1	18	....	27	357	604
	1929	262	3	23	1	24	313	435
Victoria 1b—Downeyville Road at junction of Bobcaygeon Road	1928	275	1	26	....	43	345	461
	1929	192	....	15	....	31	238	280
7–17a—Little Britain Road at west limits of Lindsay	1928	387	1	136	....	18	542	651
	1929	376	3	36	....	13	428	515
7–18a—Newcastle Road, south of Lindsay at Provincial Highway No. 7	1928	316	3	24	....	21	364	588
	1929	310	3	32	....	20	365	432
WATERLOO COUNTY—SUMMER:								
Waterloo 1a—Waterloo-Elmira Road at St. Clements Road	1928	1,138	35	122	10	159	1,464	2,387
	1929	1,148	32	135	12	153	1,480	2,377
Waterloo 1b—St. Clements Road at Waterloo-Elmira Road	1928	550	18	82	....	108	758	1,311
	1929	528	12	74	4	96	714	1,182
Waterloo 2a—West Montrose-Winterbourne Road at junction of West Montrose-Guelph Road	1928	134	1	12	....	21	168	329
	1929	147	3	12	....	18	180	334
Waterloo 2b—West Montrose-Guelph Road at junction of West Montrose-Winterbourne Road	1928	142	1	10	....	19	172	350
	1929	163	3	11	....	16	193	394
7–9a—Wellesley Road north of Baden	1928	206	6	25	2	16	255	466
	1929	207	7	38	1	9	262	499
7–10a—Preston-Conestoga Road east of Kitchener	1928	124	3	17	....	9	153	285
	1929	146	3	14	....	8	171	372
24–4a—Ayr Road at Paris-Galt Highway	1928	Not taken						
	1929	25	1	9	....	1	36	47
24–5a—Preston Road at Paris-Galt Highway	1928	765	20	96	....	11	892	1,600
	1929	1,153	29	91	2	10	1,285	2,332

COUNTY ROAD TRAFFIC CENSUS—1928 and 1929—Continued

Daily Average

Station and Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
		Ontario	Foreign					
Waterloo County—Fall:								
Waterloo 1a—Waterloo-Elmira Road at St. Clements Road	1928	1,006	10	123	9	107	1,255	2,195
	1929	1,023	13	164	11	135	1,346	1,870
Waterloo 1b—St. Clements Road at Elmira Road	1928	432	5	77	....	72	586	856
	1929	500	6	104	....	90	700	851
Waterloo 2a—West Montrose-Winterbourne Road at West Montrose-Guelph Road	1928	104	....	13	....	22	139	218
	1929	116	1	15	....	26	158	236
Waterloo 2b—West Montrose-Guelph Road at West Montrose-Winterbourne Road	1928	116	1	13	....	20	150	260
	1929	131	1	12	....	27	171	281
7-9a—Wellesley Road at Baden	1928	206	2	32	1	14	255	468
	1929	232	2	43	2	12	291	400
7-10a—Preston-Conestoga Road east of Kitchener	1928	128	1	17	....	11	157	375
	1929	124	1	17	....	10	152	302
24-4a—Ayr Road at Paris-Galt Highway	1928	20	1	3	....	1	25	48
	1929	25	1	8	....	1	35	41
24-5a—Preston Road at Galt-Guelph Highway	1928	754	10	75	....	14	853	1,279
	1929	1,032	10	140	9	12	1,203	1,726
Welland County—Summer:								
Welland 1a—Canboro Road, East and West, at Fenwick	1928	508	26	94	....	29	657	824
	1929	638	39	244	....	34	955	1,285
Welland 1b—South Pelham Road at Fenwick	1928	208	10	36	....	13	267	402
	1929	243	9	150	....	16	418	498
Welland 2a—Crowland Road at Cooks Mills	1928	539	88	75	....	10	712	1,273
	1929	735	111	92	....	8	946	1,606
Welland 2b—Humberstone Road at Cooks Mills	1928	433	78	65	1	4	581	928
	1929	469	88	60	....	4	621	1,138
3-14a—County Road at junction of Forks Road and Provincial Highway No. 3	1928	305	16	22	....	13	356	511
	1929	189	12	24	....	3	228	395
3-16a—St. Catharines Road at junction of Fonthill Road and Provincial Highway No. 3	1928	664	158	115	1	4	942	1,569
	1929	739	283	138	....	7	1,167	2,038

3-17a—Montrose Road west of Niagara Falls at Provincial Highway No. 3	1928	308	34	81	....	10	433	561
	1929	426	95	114	....	5	640	876
3A-3a—Ridgeway Road at junction of Garrison Road	1928	766	4,085	154	32	15	5,052	6,852
	1929	908	6,831	148	45	11	7,943	10,912
3A-3b—Chippewa Road at Garrison Road	1928	526	354	98	1	15	994	1,541
	1929	509	364	72	1	8	954	1,360
8-1a—Thorold Road at South End Corner	1928	978	313	132	....	6	1,429	1,867
	1929	995	195	152	....	6	1,348	1,678
8-1b—Portage Road at South End Corner	1928	1,268	426	178	3	10	1,885	2,687
	1929	1,327	287	340	....	9	1,963	2,346
Niagara Falls, near Bridgeburg	1928	1,082	1,921	106	34	2	3,145	5,326
	1929	1,188	2,688	110	37	1	4,024	6,542
WELLAND COUNTY—FALL:								
Welland 1a—Canboro Road at Fenwick, East and West	1928	582	17	137	....	65	801	1,142
	1929	636	23	143	2	50	854	1,107
Welland 1b—South Pelham Road at Fenwick South	1928	212	5	54	....	21	292	489
	1929	219	5	45	....	27	296	447
Welland 2a—Crowland Road at Cooks Mills, East and West	1928	576	56	79	....	7	718	1,277
	1929	606	43	101	....	11	761	917
Welland 2b—Humberstone Road at Cooks Mills, South	1928	375	48	50	....	2	475	862
	1929	344	34	46	....	4	428	618
3-14a—County Road at Lots 39-40, Wainfleet Township at Highway No. 3	1928	190	14	21	1	3	229	343
	1929	171	16	25	....	9	221	326
3-16a—Fonthill Road at Provincial Highway No. 3	1928	425	42	138	....	19	624	912
	1929	1,140	130	224	2	3	1,499	3,370
3-16b—St. Catharines Road at Provincial Highway No. 3	1928	569	33	161	....	8	771	980
	1929	466	41	123	....	....	630	798
3-17a—Montrose Road at Lundy's Lane	1928	428	21	53	1	8	511	678
	1929	435	52	57	1	4	549	814
3a-3a—Ridgeway Road at Garrison Road	1928	706	764	116	18	17	1,621	2,364
	1929	711	905	120	30	11	1,777	2,320
3a-3b—Chippawa Road at Garrison Road	1928	384	110	54	3	15	566	727
	1929	290	97	58	....	8	453	541
8-1a—Thorold Road at South End Corner	1928	959	154	246	....	9	1,368	1,776
	1929	914	114	189	....	8	1,225	1,634
8-1b—Portage Road at South End Corner	1928	1,093	174	236	2	9	1,514	2,041
	1929	1,093	152	174	3	8	1,430	1,910
Niagara Boulevard, near Bridgeburg	1928	687	1,043	125	18	1	1,874	3,597
	1929	878	1,072	92	21	2	2,065	3,666

COUNTY ROAD TRAFFIC CENSUS—1928 and 1929

DAILY AVERAGE

Station and Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
		Ontario	Foreign					
WELLINGTON COUNTY—SUMMER:								
Wellington 1a—Archibald-Foley Sideroad at Alma	1928	42	1	2	....	18	63	86
	1929	72	4	18	....	22	116	143
Wellington 1b—Elora Road at Alma	1928	538	11	52	....	82	683	985
	1929	528	18	68	....	77	691	1,050
Wellington 1c—Elmira Road at Alma	1928	194	2	13	....	24	233	373
	1929	209	5	24	....	33	271	432
Wellington 2—Harriston-Shelburne Road west of Mt. Forest	1928	265	5	45	....	82	397	515
	1929	415	12	32	....	76	535	677
Wellington 3—Elora-Fergus Road, east of Elora	1928	383	13	43	4	29	472	727
	1929	454	20	118	5	15	612	814
6 8a—Elora Road at Highway No. 6	1929	478	29	37	5	11	560	1,156
6 9a—Arthur-Orangeville Road at Arthur	1928	159	5	18	....	53	235	278
	1929	164	5	25	....	41	235	332
9 3a—Clifford-Hanover Road at Clifford Village	1928	112	4	15	....	17	148	235
	1929	155	7	22	....	15	199	357
23 2a—Elora Road at Teviotdale moved to County Road No. 4 at Gowanstown, in 1929	1928	252	13	12	....	5	282	529
	1929	65	1	6	....	21	93	115
WELLINGTON COUNTY—FALL:								
Wellington 1a—Archibald-Foley Sideroad at Alma	1928	58	1	5	....	18	82	100
	1929	69	....	126	....	11	206	393
Wellington 1b—Elora Road at Alma	1928	467	2	41	....	82	592	943
	1929	402	3	161	....	57	623	685
Wellington 1c—Elmira Road at Alma	1928	172	2	17	....	28	219	385
	1929	170	1	137	....	26	334	414
Wellington 2—Harriston-Shelburne Road, southwest of Mount Forest	1928	491	7	311	....	155	964	1,329
	1929	278	4	20	2	39	343	471
Wellington 3—Elora-Fergus Road, east of Elora	1928	321	7	37	5	37	407	582
	1929	344	3	61	4	22	434	515
6 8a—Elora Road at Provincial Highway No. 6	1928	568	15	53	3	12	651	1,232
	1929	346	7	26	5	9	393	581

6-9a—Arthur-Orangeville Road at Arthur	1928	188	1	23	....	43	255	365
	1929	154	5	20	....	46	225	372
9-3a—Clifford-Hanover Road at Clifford	1928	126	2	17	....	21	166	319
	1929	120	1	17	....	29	167	200
23-3a—Elora Road at Teviotdale	1928	62	....	6	....	17	85	105
	1929	Under construction						
WENTWORTH COUNTY—SUMMER:								
6-4a—County Road at Cons. 5 and 6, Clanford Township.	1928	141	2	27	....	11	181	253
	1929	160	5	40	....	5	210	280
6-6a—Brock Road at Freelton	1928	161	9	23	....	10	203	329
	1929	134	4	15	....	4	157	304
8-5a—Old Stoney Creek Road at Provincial Highway No. 8.	1928	247	39	50	....	1	337	482
	1929	800	61	80	....	2	943	2,199
8-7a—Brock Road at Bullock's Corners	1928	684	24	103	1	17	829	1,296
	1929	605	24	126	....	17	772	1,155
WENTWORTH COUNTY—FALL:								
6-3a—Ohsweken Road at Provincial Highway No. 6	1928	76	1	11	....	16	104	148
	1929	77	9	13	....	10	109	256
6-4a—County Road, Cons. 6 and 7, Glanford Township	1928	150	3	23	....	9	185	260
	1929	168	1	31	....	9	209	311
6-6a—Brock Road at Freelton	1928	120	1	26	....	10	157	223
	1929	117	2	18	....	9	146	224
8-5a—Old Stoney Creek Road at Provincial Highway No. 8	1928	292	20	53	....	5	370	551
	1929	438	71	99	....	4	612	1,183
8-7a—Brock Road at Bullock's Corners	1928	418	4	72	....	20	514	832
	1929	545	5	90	....	17	657	967
YORK COUNTY—SUMMER:								
York 1a—Sutton Road at Sharon	1928	1,565	30	104	1	8	1,708	3,517
	1929	1,781	29	108	....	11	1,929	4,624
York 1b—Mount Albert Road at Sharon	1928	388	6	41	....	4	439	760
	1929	254	9	37	....	8	308	484
York 2—Weston Road at Eglinton Ave	1928	5,147	83	1,320	9	98	6,657	7,156
	1929	5,859	79	1,389	9	99	7,435	8,037
York 3—Vaughan Road at Eglinton Ave	1928	3,789	30	713	5	111	4,648	6,613
	1929	3,922	57	925	5	59	4,968	7,407
York 4a—Schomberg Road at Kleinburg	1928	626	4	148	5	13	796	875
	1929	850	20	120	4	34	1,028	2,326
York 4b—Nashville Road at Kleinburg	1928	248	1	71	....	7	327	597
	1929	366	6	45	....	22	439	908
2-19a—Markham Road at Danforth Ave	1928	2,665	31	438	76	41	3,251	5,845
	1929	2,224	20	442	82	39	2,807	2,964

COUNTY ROAD TRAFFIC CENSUS—1928 and 1929—Continued

DAILY AVERAGE

Station and Location of Observer	Year	Automobiles		Trucks	Busses	Horse-drawn Vehicles	Total Daily Average	Maximum for One Day
		Ontario	Foreign					
2-20a—Old Kingston Road at Danforth Ave.	1928	4,568	614	376	8	47	5,613	9,502
	1929	Not taken						
5-1a—Dundas Street at Islington	1928	2,312	102	281	40	18	2,753	3,654
	1929	Not taken						
11-1a—Lansing Corner, traffic east of Yonge Street	1928	881	38	160	....	16	1,095	1,459
	1929	1,382	190	327	1	10	1,910	2,633
11-1b—Lansing Corner, traffic west of Yonge Street	1928	280	13	54	....	12	359	467
	1929	Closed to traffic						
7-14½a—At Markham, traffic North and South	1929	1,600	14	170	12	34	1,830	1,874
YORK COUNTY—FALL:								
York 1a—Sutton Road at Sharon	1928	752	3	81	....	9	845	1,942
	1929	782	1	120	....	5	908	1,523
York 1b—Mount Albert Road at Sharon	1928	244	....	34	....	2	280	488
	1929	273	....	58	....	2	333	420
York 2—Weston Road at Eglinton Ave.	1928	4,953	49	1,228	7	101	6,338	8,080
	1929	5,333	27	1,782	8	110	7,260	8,879
York 3—Vaughan Road at Eglinton Ave.	1928	3,087	8	698	4	91	3,888	6,064
	1929	3,613	19	1,132	12	63	4,839	5,180
York 4a—Schomberg Road at Kleinburg, North and South	1928	597	3	95	4	17	716	1,368
	1929	727	8	193	4	13	945	1,339
York 4b—Nashville Road at Kleinburg, West	1928	233	1	28	....	8	270	505
	1929	286	2	69	....	5	362	522
2-19a—Markham Road at Danforth Ave.	1928	2,253	14	508	79	41	2,895	5,766
	1929	1,712	6	507	77	33	2,335	3,122
2-20a—Old Kingston Road at Danforth Avenue	1928	Under construction						
	1929	2,921	158	375	6	10	3,470	5,744
5-1a—Dundas Street at Islington	1928	1,297	43	142	31	4	1,517	3,556
	1929	2,944	65	614	56	15	3,694	5,393
7-14½a—County Road No. 68 at Markham	1928	911	45	359	30	55	1,400	2,253
	1929	1,145	5	241	7	36	1,434	2,116
11-1a—Lansing Corner, traffic west of Yonge Street	1928	394	2	52	....	6	454	584
	1929	983	5	251	....	8	1,247	1,712
11-1b—Lansing Corner, traffic East	1928	766	6	147	....	8	925	1,826
	1929	393	2	145	....	6	546	701

Report of Motor Vehicles Branch, 1928

By J. P. Bickell, Registrar of Motor Vehicles

This report shows in detail (1) the motor vehicle registrations for the Province for the years 1904 to 1928, inclusive; (2) the chauffeur and operator registrations for the years 1912 to 1928, inclusive; (3) the motor vehicle registrations for the calendar year 1928, arranged according to the residence of the owner and according to the model, horse-power and number of cylinders of passenger cars, and the gross weight and type of tires of commercial vehicles; (4) a financial statement for the fiscal year which has been duly verified for accuracy by the Provincial Auditor; (5) a statement showing the revenue collected for motor vehicle permits, etc., from 1904 to 1928, inclusive; (6) a summary of the convictions registered under the Highway Traffic Act as reported to the Branch by Police Magistrates during the calendar year; (7) a summary showing the number of suspensions of permits and drivers' licenses from 1924 to 1928, inclusive.

Registrations

The registration of motor vehicles for the Province continues to increase annually, and during the year 1928 a total of 486,801 motor vehicles were registered as owned by residents of Ontario. It is interesting to note that in 1918 these numbered but 114,130. In ten years the registration of motor vehicles has increased by 325 per cent.

Revenue

On reference to the statements of revenue collected during the years 1927 and 1928 it is noted that every item, with the exception of operators' licenses, shows an increase. The decrease mentioned is attributable to the fact that the operators' licenses issued in July, 1927, were valid until December 31st, 1928, and, for that reason, there were not so many of these licenses issued. As a result of the coming into force of section 67 of the Act, requiring drivers to carry their licenses at all times, the revenue collected for chauffeur licenses and for duplicate licenses, show a decided increase. The only reduction in fees was made in connection with the two-purpose vehicle. This was reduced from $16.00 to $12.00. An item which appears in the statement of revenue for the first time is the amount collected for fees for public commercial vehicle licenses.

Drivers' Licenses

The issuance of chauffeur badges and non-professional certificates was discontinued in 1928.

Suspensions and Revocations of Permits and Licenses

The statement of permits and licenses suspended and revoked shows an increase both in the licenses suspended by Police Magistrates and those suspended by the Minister pursuant to sections 20 and 45 of the Act. This, I feel safe in saying, is due to a more rigid enforcement of the provisions of the law dealing with reckless driving and driving while intoxicated.

Highway Traffic Officers

The Force of Highway Traffic Officers was increased this year, and during the height of the tourist season a total of sixty-two officers were on the staff. Although the volume of traffic was considerably greater, an improvement was noted in the conduct of drivers and a greater degree of care and courtesy was exercised by the majority of motorists both local and foreign. I am firmly of the opinion, however, that the effectiveness of this Force would be materially augmented were it possible to equip the men with uniforms.

Public Vehicles

During the year 1928 there were 522 licenses issued, 104 operators and 146 routes operated. A few changes took place, the most important being the change in ownership of the Metropolitan Bus Lines to the Toronto Transportation Commission and the Red Bus Lines to the same Commission. There was an increase in 1928 in the number of public vehicles operated over the previous year.

Public Commercial Vehicles

The Act to license and regulate the operation of trucks used as common carriers for the conveyance of more than one person's goods and running between two or more municipalities was brought into effect on September 17th, and a total of 945 licenses were issued up to the end of the year.

Highway Safety Campaign

The Highway Safety Committee, formed in 1927, continued to function during the year 1928 and carried on an aggressive educational campaign urging motorists to exercise "Care, Courtesy and Common Sense" in the operation of their vehicles. Every method of advertising was used and the subject of safety was presented through the medium of newspaper and periodical advertising, billboard posters, radio talks, motion picture exhibitions and by speakers provided for service and motor club functions. The efforts of this Committee were well received by the motorists and police departments and much good was accomplished, I am sure, as a result of its activities.

The statements referred to in the first paragraph are appended hereto.

MOTOR VEHICLE REGISTRATIONS FOR THE YEARS 1904-1928, INCLUSIVE

Year	Passenger cars	Owned in Ontario	Others	Commercial Vehicles	Motorcycles	Trailers	Public Vehicles		Public Commercial Vehicles	
							Operators	Vehicles	Operators	Vehicles
1904	535									
1905	553									
1906	1,176	517	659							
1907	1,530	550	980							
1908	1,754	589	1,165							
1909	2,452	1,020	1,432							
1910	4,230	1,977	2,253							
1911	11,339	7,338	4,001							
1912	16,268	11,939	4,327		1,754					
1913	23,700	17,750	5,950		2,900					
1914	31,724	25,308	6,416		3,633					
1915	42,346	36,661	5,685		4,174					
1916	51,589	50,587	1,002	2,786	4,287					
1917	78,861	78,475	386	4,929	5,180					
1918	101,845	101,599	246	7,529	5,002					
1919	127,860	127,512	348	11,428	5,516					
1920	155,861	155,519	342	16,204	5,496					
1921	181,978	181,686	292	19,554	4,989	327				
1922	210,333	210,008	325	24,164	4,799	463				
1923	245,815	245,435	380	28,612	4,325	591				
1924	271,341	270,876	465	31,488	3,941	778	50	102		
1925	303,736	303,216	520	34,690	3,748	1,058	91	216		
1926	343,992	343,586	406	39,012	3,345	1,398	107	384		
1927	386,903	386,311	592	43,442	3,159	1,962	103	480		
1928	429,426	428,890	536	54,714	3,197	3,281	104	522	367	945

CHAUFFEUR AND OPERATORS' LICENSES ISSUED FOR THE YEARS 1912-1928, INCLUSIVE

	Chauffeurs	Operators
1912	2,965	
1913	3,514	
1914	3,773	
1915	5,322	
1916	5,966	
1917	8,214	
1918	10,629	
1919	15,400	
1920	19,563	
1921	21,808	
1922	25,301	
1923	27,033	
1924	29,676	
1925	33,740	
1926	39,513	
1927	64,916	444,472
1928	89,965	81,022

MOTOR VEHICLE REGISTRATIONS, 1928

Automobile Permits	429,426
Commercial Permits	54,714
Trailer Permits	3,281
Motorcycle Permits	3,197
Automobile dealer permits	2,207
Motorcycle dealer permits	16
Commercial dealer permits	113
Operators	81,022
Chauffeurs	89,965
Garages	3,158
In transits	32,883
Transfers	83,311
Public vehicles	522
Public commercial vehicles	945

MOTOR VEHICLES BRANCH

Highways Department

Revenue for the Fiscal Year 1927-1928

Automobile permits	$4,347,160 50		
Commercial permits	1,434,662 00		
Convertible permits	74,720 00		
Trailer permits	25,725 00		
Motorcycle permits	12,477 00		
Automobile dealer permits	54,943 00		
Motorcycle dealer permits	122 00		
Commercial dealer permits	5,841 00		
Operators	88,633 00		
Chauffeurs	109,495 00		
Duplicate cards and badges	6,601 75		
Transfers	161,884 00		
In transits	19,695 50		
Garages	26,467 50		
Certificates	15 75		
Miscellaneous	1,172 00		
Public vehicles	131,942 45		
Public commercial vehicles	1,085 68		
Lists	79 25		
Fines	81,966 72		
Telephone Commissions	2 30		
Postage	65 56		
		$6,584,756 96	
Less			
Commissions deducted by agents	$111,498 80		
Express charges paid by agents	65 12		
Cheque charged back by Provincial Treasurer	25 00		
Refunds deducted by Provincial Treasurer	3,323 17		
		114,912 09	
			$6,469,844 87
Overpaid by agents			306 92
			$6,470,151 79

Statement of Revenue collected during the fiscal years 1904-1928, inclusive

Year	Receipts
1904	$1,680 00
1905	1,142 00
1906	5,523 15
1907	8,098 50
1908	10,007 75
1909	12,418 75
1910	24,394 01
1911	50,831 22
1912	73,255 96
1913	105,558 95
1914	149,210 45
1915	334,759 78

Statement of Revenue collected during the fiscal years 1904-1928, inclusive—Continued

Year	Receipts
1916	639,987 09
1917	930,753 00
1918	1,214,093 87
1919	1,580,146 61
1920	1,990,833 38
1921	2,945,360 36
1922	3,477,430 13
1923	4,296,009 32
1924	4,784,697 13
1925	5,638,993 38
1926	6,415,713 05
1927	5,964,863 63
1928	6,470,151 79

SUMMARY OF CONVICTIONS REGISTERED UNDER THE HIGHWAY TRAFFIC ACT 1928 (CALENDAR YEAR)

Section violated	Offence	Number of convictions
4 (1)	No registration plates	429
5 (1)	Defaced registration plates	161
6 (3)	Dirty registration plates	94
7	Improper registration plates	106
9 (1)	No lights	1,871
9 (2)	Too many lights of over 4 c.p.	130
9 (7)	No rear lights	177
9 (13)	Revolving lights	57
11 (1)	Trucks without mirrors	89
13 (2)	Unnecessary noise	139
16 (1)	No chauffeur license	202
21 (1)	No garage license	11
23 (1)	Exceeding speed limit	25,495
24	Reckless driving	3,520
25 (1)	Racing	6
31 (1)	Excess loads	616
35 (2)	Failure to stop at intersection	543
37 (1)	Passing standing street car	289
37 (2)	Passing street car on wrong side	66
40 (1)	Failure to return to scene of accident	126
43 (1)	Operating while under age	96
45 (1)	Driving while intoxicated	564
67 (1)	Operating without operator's license	1,872
	Miscellaneous	257
		36,916

SUMMARY OF SUSPENSIONS OF MOTOR VEHICLE PERMITS AND DRIVERS' LICENSES

Year	Intoxicated	Reckless driving	Miscellaneous	Total
1924	39	36	8	83
1925	135	167	14	316
1926	236	171	13	420
1927	442	498	34	974
1928	564	934	69	1567

PASSENGER CARS REGISTERED—1928

Counties		Cities		Total
Algoma	2,447	Sault Ste. Marie	2,659	5,106
Brant	3,119	Brantford	3,686	6,805
Bruce	6,125			6,125
Carleton	4,269	Ottawa	12,090	16,359
Dufferin	2,780			2,780
Dundas	2,405			2,405
Durham	3,636			3,636
Elgin	4,937	St. Thomas	2,814	7,751
Essex	15,030	Windsor	9,629	24,659
Frontenac	2,829	Kingston	2,682	5,511
Glengarry	1,758			1,758
Grenville	2,070			2,070
Grey	6,676	Owen Sound	1,687	8,363
Haldimand	4,249			4,249
Haliburton	476			476
Halton	4,257			4,257
Hastings	6,691	Belleville	2,170	8,861
Huron	7,495			7,495
Kenora	785			785
Kent	8,740	Chatham	2,698	11,438
Lambton	6,920	Sarnia	2,951	9,871
Lanark	4,021			4,021
Leeds	4,875			4,875
Lennox and Addington	2,835			2,835
Lincoln	4,024	St. Catharines	3,404	7,428
Manitoulin	635			635
Middlesex	9,390	London	10,560	19,950
Muskoka	2,267			2,267
Nipissing	2,537	North Bay	1,505	4,042
Norfolk	4,958			4,958
Northumberland	4,504			4,504
Ontario	5,388	Oshawa	4,093	9,481
Oxford	6,663	Woodstock	2,504	9,167
Parry Sound	2,355			2,355
Peel	4,684			4,684
Perth	5,298	Stratford	2,395	7,693
Peterborough	3,054	Peterborough	2,866	5,920
Prescott	1,759			1,759
Prince Edward	2,993			2,993
Rainy River	1,331			1,331
Renfrew	4,866			4,866
Russell	1,395			1,395
Simcoe	10,812			10,812
Stormont	3,250			3,250
Sudbury	2,226			2,226
Thunder Bay	1,002	Fort William	2,375	.....
		Port Arthur	2,059	5,436
Temiskaming	3,831			3,831
Victoria	4,501			4,501
Waterloo	6,386	Galt	1,944	
		Kitchener	3,646	11,976
Welland	7,004	Niagara Falls	3,526	
		Welland	1,942	12,472
Wellington	5,755	Guelph	2,587	8,342
Wentworth	5,219	Hamilton	17,057	22,276
York	15,502	Toronto	80,347	95,849
Foreign	536			536
	243,550		185,876	429,426

Horse Power

4-cylinder less than 25 horse-power	311,262	
4-cylinder more than 25 and up to 35 horse-power	959	
4-cylinder more than 35 and up to 50 horse-power	33	
		312,254
6-cylinder less than 25 horse-power	59,752	
6-cylinder more than 25 and up to 35 horse-power	50,742	
6-cylinder more than 35 and up to 50 horse-power	2,622	
6-cylinder more than 50 horse-power	483	
		113,599
8-12-cylinder more than 25 and up to 35 horse-power	158	
8-12-cylinder more than 35 and up to 50 horse-power	2,789	
8-12-cylinder more than 50 horse-power	599	
		3,546
Electric		27
		429.426

Models

Opened cars	174,422	
Closed cars	255,004	
		429,426

Registration

Originals	71,611	
Renewals	357,815	
		429,426

COMMERCIAL CARS REGISTERED 1928

Counties		Cities		Total
Algoma	428	Sault Ste. Marie	276	704
Brant	379	Brantford	561	940
Bruce	301		....	301
Carleton	542	Ottawa	1,561	2,103
Dufferin	257		.....	257
Dundas	163		.....	163
Durham	223		.....	223
Elgin	501	St. Thomas	256	757
Essex	2,286	Windsor	1,580	3,866
Frontenac	292	Kingston	344	636
Glengarry	80		.....	80
Grenville	285		.....	285
Grey	381	Owen Sound	156	537
Haldimand	367		.....	367
Haliburton	158		.....	158
Halton	581		.....	581
Hastings	501	Belleville	274	775
Huron	570		.....	570
Kenora	133		.....	133
Kent	692	Chatham	431	1,123
Lambton	463	Sarnia	237	700
Lanark	255		.....	255
Leeds	376		.....	376
Lennox and Addington	199		.....	199
Lincoln	724	St. Catharines	565	1,289
Manitoulin	45		.....	45
Middlesex	733	London	1,314	2,047
Muskoka	164		.....	164
Nipissing	188	North Bay	171	359
Norfolk	542		.....	542
Northumberland	441		.....	441
Ontario	551	Oshawa	392	943

COMMERCIAL CARS REGISTERED—1928—Continued

Counties		Cities		Total
Oxford	723	Woodstock	202	925
Parry Sound	502			502
Peel	708			708
Perth	414	Stratford	212	626
Peterboro	191	Peterboro	292	483
Prescott	243			243
Prince Edward	284			284
Rainy River	419			419
Renfrew	284			284
Russell	282			282
Simcoe	721			721
Stormont	328			328
Sudbury	355			355
Thunder Bay	167	Fort William	358	
		Port Arthur	266	791
Temiskaming	473			473
Victoria	322			322
Waterloo	673	Galt	268	
		Kitchener	429	1,370
Welland	826	Niagara Falls	475	
		Welland	285	1,586
Wellington	423	Guelph	312	735
Wentworth	1,142	Hamilton	2,654	3,796
York	3,785	Toronto	13,316	17,101
Foreign	461			461
	27,527		27,187	54,714

Tires

Pneumatic	42,728	
Solid	4,666	
Municipal	490	
Ontario Government Dominion Government	532	
Convertible vehicles	6,298	
		54,714

Gross Weights—Pneumatic Tires

Less than two tons	15,614	
Of two tons and up to three tons	18,419	
More than three tons and up to four tons	3,720	
More than four tons and up to five tons	1,716	
More than five tons and up to six tons	1,015	
More than six tons and up to seven tons	620	
More than seven tons and up to eight tons	1,249	
More than eight tons and up to nine tons	158	
More than nine tons and up to ten tons	217	
		42,728

Gross Weights—Solid Tires

Less than two tons	136		
Of two tons and up to three tons	1,459		
More than three tons and up to four tons	217		
More than four tons and up to five tons	326		
More than five tons and up to six tons	538		
More than six tons and up to seven tons	437		
More than seven tons and up to eight tons	937		
More than eight tons and up to nine tons	253		
More than nine tons and up to ten tons	138		
More than ten tons and up to eleven tons	50		
More than eleven tons and up to twelve tons	175		
		4,666	
Municipal	490		
Ontario Government Dominion Government	532		
Convertible vehicles	6,298		
		7,320	
			54,714

TRAILER REGISTRATIONS—1928

Counties		Cities		Total
Algoma	1	Sault Ste. Marie	13	14
Brant	20	Brantford	30	50
Bruce	41		.....	41
Carleton	21	Ottawa	41	62
Dufferin	6		.....	6
Dundas	7		.....	7
Durham	7		.....	7
Elgin	53	St. Thomas	19	72
Essex	186	Windsor	48	234
Frontenac	4	Kingston	8	12
Glengarry	1		....	1
Grenville	9		.....	9
Grey	29	Owen Sound	5	34
Haldimand	50		.....	50
Haliburton	3		.....	3
Halton	26		.....	26
Hastings	28	Belleville	26	54
Huron	184		.....	184
Kenora	1		.....	1
Kent	70	Chatham	25	95
Lambton	85	Sarnia	13	98
Lanark	25		.....	25
Leeds	18		.....	18
Lennox and Addington	14		.....	14
Lincoln	11	St. Catharines	35	46
Manitoulin	1		.....	1
Middlesex	108	London	66	174
Muskoka	1		.....	1
Nipissing	9	North Bay	17	26
Norfolk	55		.....	55
Northumberland	26		.....	26
Ontario	34	Oshawa	35	69
Oxford	104	Woodstock	6	110
Parry Sound	4		.....	4
Peel	27		.....	27
Perth	55	Stratford	11	66
Peterboro	7	Peterboro	9	16
Prescott	.....		.....	.....
Prince Edward	17		.....	17
Rainy River	18		.....	18
Renfrew	10		.....	10
Russell	4		.....	4
Simcoe	41		.....	41
Stormont	6		.....	6
Sudbury	1		.....	1
Thunder Bay	1	Fort William	7	8
		Port Arthur	2	2
Temiskaming	7		.....	7
Victoria	19		.....	19
Waterloo	43	Galt	5	48
		Kitchener	21	21
Welland	27	Niagara Falls	23	50
		Welland	16	16
Wellington	27	Guelph	12	39
Wentworth	19	Hamilton	304	323
York	79	Toronto	779	858
Foreign	55		.....	55
	1,705		1,576	3,281

Trailer Gross Weights

One ton or less	2,154
More than one ton and up to two tons	315
More than two tons and up to three tons	170
More than three tons and up to four tons	130
More than four tons and up to five tons	140
More than five tons and up to six tons	102
More than six tons and up to seven tons	28

Trailer Gross Weights—Continued

More than seven tons and up to eight tons	124	
More than eight tons and up to nine tons	2	
More than nine tons and up to ten tons	5	
Municipal	111	
		3,281

REPORT OF MOTOR VEHICLES BRANCH, 1929

By J. P. BICKELL, Registrar of Motor Vehicles

This report shows in detail—(1) the motor vehicle registrations for the Province for the years 1904 to 1929, inclusive; (2) the chauffeur and operator registrations for the years 1912 to 1929, inclusive; (3) the motor vehicle registrations for the calendar year 1929, arranged according to residence of the owner and according to the model, horse power, and number of cylinders of passenger cars, and the gross weight and type of tires of commercial vehicles; (4) a financial statement for the fiscal year which has been duly verified for accuracy by the Provincial Auditor; (5) a statement showing the revenue collected for motor vehicle permits, etc., from 1904 to 1929, inclusive; (6) a summary showing the number of suspensions of permits and drivers' licenses from 1924 to 1929, inclusive.

Registrations

In 1929 there were 531,393 motor vehicles registered as owned by residents of Ontario as compared with 486,801 in the previous year. The steady increase of approximately 45,000 registrations each year is a convincing indication that the motor vehicle is now the popular mode of transportation.

Revenue

The total revenue for 1929 shows an increase of over $1,000,000. There was a general increase in that collected for all classes of permits and licenses, but particularly for operators' licenses and public commercial vehicle fees. The operators' licenses issued when the driver's license law came into effect expired on the 31st of December, 1928, and it was therefore necessary that these be renewed for 1929. This accounts for the fact that the revenue collected for this type of license was approximately five times greater than in the previous year. The Act regulating the operation of public commercial vehicles (common carriers) came into force in September, 1928, and consequently the revenue from this source added to the total revenue for 1929. The fee for the two-purpose vehicle was reduced from $12.00 to $9.00.

Drivers' Licenses

As previously stated the increase in the chauffeur and operator registrations was due to the enforcement of the driver's license law and to the fact that the operators' licenses issued in 1927 expired in December, 1928.

Suspensions and Revocations of Permits and Licenses

During the year 1929 there were 722 permits and licenses suspended for operating motor vehicles while intoxicated and 1,066 permits and licenses suspended for reckless driving, making a total of 290 more permits and licenses suspended for these offences than in 1928. In the case of a conviction for driving while intoxicated there was a gaol term imposed, as provided under the Criminal Code, then a suspension of license and permit by this Department of from one to three months for a first offence, from three to six months for a second and from one to two years for a third or subsequent offence. In the case of reckless driving the suspension period was imposed by the police magistrate before whom the case was tried.

Highway Traffic Officers

Owing to the fact that tourist traffic is becoming heavier each year our Force of Highway Traffic Officers was again increased. During the summer months there were seventy-two men on the staff. They were all equipped with uniforms, thus adding to the dignity of their appearance and to the effectiveness of the Force. There was a rumour circulated that American tourists were being discriminated against but, in fairness to our officers, I would say that this was not a fact. Almost daily letters were received by the Department commending the courteous treatment and assistance rendered these tourists by our men.

Eastern Conference of Motor Vehicle Administrators

On September 5th and 6th the Eastern Conference of Motor Vehicle Administrators met in Toronto with headquarters at the Royal York Hotel. Many subjects were discussed at the business meetings which were of interest to the Commissioners and which would be of assistance to them in the administration of their respective departments.

Highway Safety Committee

The Highway Safety Committee continued its work during 1929 of educating the motoring public to operate with greater "Care, Courtesy and Common Sense." A large sum was appropriated for advertising and through this means the aim of the Committee to make our highways safer avenues of travel was furthered. Radio talks were also given and a motion picture, dealing with the subject of safety, was shown at several theatres throughout the Province.

Proposed Safety Responsibility Legislation

On February 8th, 1929, the Honourable Mr. Justice F. E. Hodgins was appointed by Royal Commission to investigate and report on the advisability of the Province of Ontario introducing a compulsory insurance or safety responsibility law. During the week of November 4th I accompanied the Honourable Mr. Justice Hodgins and his party to Springfield and Boston, Massachusetts, and to Hartford, Connecticut, where the laws in force in those States were inspected. From observations made on this trip it would appear to me that the enactment of a financial responsibility law in Ontario similar to that in effect in the State of Connecticut would be more liable to accomplish the purpose intended than a compulsory insurance law similar to that in effect in the State of Massachusetts.

Public Vehicles

Although there was a decrease in the number of operators during 1929 there was an increase in the number of vehicles registered from 522 to 587. Several of the independent operators were bought out by the Toronto Transportation Commission and the Dominion Power and Transmission Company Limited, of Hamilton, these two companies now owning practically all routes in the Toronto and Hamilton districts. Another important merger was that of the Colonial Coach Lines Limited, which absorbed all of the small operators east of Kingston and inaugurated a service from Montreal to Toronto.

Public Commercial Vehicles

An increase in the number of vehicles operated under the provisions of the Public Commercial Vehicle Act and a decided improvement in the services operated has been seen during the year 1929. While a general policy of restricting the issuance of new licenses has been adopted the figures show an increase from 945 licenses issued in 1928 to 1,118 in 1929.

The statements referred to in the first paragraph are appended hereto.

MOTOR VEHICLE REGISTRATIONS FOR THE YEARS 1904-1929, INCLUSIVE

Year	Passenger cars	Owned in Ontario	Others	Commercial Vehicles	Motorcycles	Trailers	Public Vehicles		Public Commercial Vehicles	
							Oper.	Vehicles	Oper.	Vehicles
1904......	535	......	......	......	......	......	......	......	......	......
1905......	553	......	......	......	......	......	......	......	......	......
1906......	1,176	517	659	......	......	......	......	......	......	......
1907......	1,530	550	980	......	......	......	......	......	......	......
1908......	1,754	589	1,165	......	......	......	......	......	......	......
1909......	2,452	1,020	1,432	......	......	......	......	......	......	......
1910......	4,230	1,977	2,253	......	......	......	......	......	......	......
1911......	11,339	7,338	4,001	......	......	......	......	......	......	......
1912......	16,268	11,939	4,327	......	1,754	......	......	......	......	......
1913......	23,700	17,750	5,950	......	2,900	......	......	......	......	......
1914......	31,724	25,308	6,416	......	3,633	......	......	......	......	......
1915......	42,346	36,661	5,685	......	4,174	......	......	......	......	......
1916......	51,589	50,587	1,002	2,786	4,287	......	......	......	......	......
1917......	78,861	78,475	386	4,929	5,180	......	......	......	......	......
1918......	101,845	101,599	246	7,529	5,002	......	......	......	......	......
1919......	127,860	127,512	348	11,428	5,516	......	......	......	......	......
1920......	155,861	155,519	342	16,204	5,496	......	......	......	......	......
1921......	181,978	181,686	292	19,554	4,989	327	......	......	......	......
1922......	210,333	210,008	325	24,164	4,799	463	......	......	......	......
1923......	245,815	245,435	380	28,612	4,325	591	......	......	......	......
1924......	271,341	270,876	465	31,488	3,941	778	50	102	......	......
1925......	303,736	303,216	520	34,690	3,748	1,058	91	216	......	......
1926......	343,992	343,586	406	39,012	3,345	1,398	107	384	......	......
1927......	386,903	386,311	592	43,442	3,159	1,962	103	480	......	......
1928......	429,426	428,890	536	54,714	3,197	3,281	104	522	367	945
1929......	473,222	472,634	588	55,218	3,541	4,903	80	587	285	1,118

CHAUFFEUR AND OPERATORS' LICENSES ISSUED FOR THE YEARS 1912-1929, INCLUSIVE

	Chauffeurs	Operators
1912	2,965	
1913	3,514	
1914	3,773	
1915	5,322	
1916	5,966	
1917	8,214	
1918	10,629	
1919	15,409	
1920	19,563	
1921	21,808	
1922	25,301	
1923	27,033	
1924	29,676	
1925	33,740	
1926	39,513	
1927	64,916	444,472
1928	89,965	81,022
1929	111,861	473,213

MOTOR VEHICLES BRANCH

Highways Department

Revenue for Fiscal Year 1928-1929

Automobile permits	$4,986,418 50		
Commercial permits	1,672,474 00		
Convertible permits	73,652 50		
Trailer permits	39,590 50		
Motorcycle permits	13,631 00		
Automobile dealer permits	59,887 00		
Commercial dealer permits	7,896 00		
Motorcycle dealer permits	145 00		
Chauffeurs	141,901 00		
Operators	485,483 00		
Garages	26,955 00		
Public vehicles	152,789 45		
Public commercial vehicles	36,784 36		
In transits	18,728 00		
Duplicate cards and badges	13,593 75		
Transfers	189,630 00		
Certificates and searches	83 55		
Lists	28 90		
Fines	95,347 90		
Postage	68 66		
Miscellaneous	166 00		
		$8,015,254 07	
Less			
Commissions deducted by agents	$164,163 15		
Express charges paid by agents	331 19		
Cheques charged back by Provincial Treasurer	28 00		
Refunds deducted by Provincial Treasurer	2,319 65		
		$166,841 99	
			$7,848,412 08
Overpaid by agents			36 50
			$7,848,448 58

Statement of Revenue Collected during the fiscal years 1904-1929, inclusive

Year	Receipts
1904	$1,680 00
1905	1,142 00
1906	5,523 15
1907	8,098 50
1908	10,007 75
1909	12,418 75
1910	24,394 01
1911	50,831 22
1912	73,255 96
1913	105,558 95
1914	149,210 45
1915	334,759 78
1916	639,987 09
1917	930,753 00
1918	1,214,093 87
1919	1,580,146 61
1920	1,990,833 38
1921	2,945,360 36
1922	3,477,430 13
1923	4,296,009 32
1924	4,784,697 13
1925	5,638,993 38
1926	6,415,713 05
1927	5,964,863 63
1928	6,470,151 79
1929	7,848,448 58

SUMMARY OF SUSPENSIONS OF MOTOR VEHICLE PERMITS AND DRIVERS' LICENSES

Year	Intoxicated	Reckless driving	Miscellaneous	Total
1924	39	36	8	83
1925	135	167	14	316
1926	236	171	13	420
1927	442	498	34	974
1928	564	934	69	1,567
1929	722 (34 foreign)	1066 (35 foreign)	65	1,853

MOTOR VEHICLE REGISTRATIONS, 1929

Automobile permits	473,222
Commercial permits	55,218
Convertible permits	8,226
Trailer permits	4,903
Motorcycle permits	3,541
Automobile dealer permits	2,403
Motorcycle dealer permits	24
Commercial dealer permits	137
Operator	473,213
Chauffeurs	111,861
Garages	3,213
In transits	47,142
Transfers	94,276
Public vehicles	587
Public commercial vehicles	1,118

PASSENGER CARS REGISTERED—1929

Counties		Cities		Total
Algoma	2,450	Sault Ste. Marie	3,307	5,457
Brant	3,518	Brantford	4,357	7,875
Bruce	6,468			6,468
Carleton	4,409	Ottawa	13,768	18,177
Dufferin	2,902			2,902
Dundas	2,710			2,710
Durham	3,843			3,843
Elgin	5,135	St. Thomas	3,305	8,440
Essex	15,550	Windsor	10,762	26,312
Frontenac	3,006	Kingston	3,085	6,091
Glengarry	1,949			1,949
Grenville	2,307			2,307
Grey	6,806	Owen Sound	1,897	8,703
Haldimand	4,472			4,472
Haliburton	495			495
Halton	4,511			4,511
Hastings	7,011	Belleville	2,461	9 472
Huron	8,110			8,110
Kenora	1,009			1,009
Kent	8,990	Chatham	3,059	12,049
Lambton	7,410	Sarnia	3,382	10,792
Lanark	4,530			4,530
Leeds	5,154			5,154
Lennox and Addington	2,959			2,959
Lincoln	4,267	St. Catharines	3,999	8,266
Manitoulin	710			710
Middlesex	9,617	London	11,333	20,950
Muskoka	2,363			2,363
Nipissing	2,671	North Bay	1,636	4,307
Norfolk	5,096			5,096
Northumberland	4,607			4,607
Ontario	5,606	Oshawa	4,605	10,211
Oxford	7,085	Woodstock	2,870	9,955
Parry Sound	2,507			2,507
Peel	4,783			4,783
Perth	5,459	Stratford	2,701	8,160
Peterborough	3,318	Peterborough	3,289	6,607
Prescott	1,907			1,907
Prince Edward	3,095			3,095
Rainy River	1,408			1,408
Renfrew	5,054			5,054
Russell	1,657			1,657
Simcoe	11,336			11,336
Stormont	3,400			3,400
Sudbury	2,456			2,456
Thunder Bay	1,139	Fort William	2,577	
		Port Arthur	2,372	6,088
Temiskaming	4,252			4,252
Victoria	4,708			4,708
Waterloo	6,499	Galt	2,183	
		Kitchener	4,333	13,015
Welland	7,302	Niagara Falls	4,102	
		Welland	2,517	13,921
Wellington	5,903	Guelph	3,089	8,992
Wentworth	5,512	Hamilton	19,653	25,165
York	16,283	Toronto	96,588	112,871
Foreign	588			588
	256.292		216,930	473,222

Horse-power

4-cylinder less than 25 horse-power	311,691		
4-cylinder more than 25 and up to 35 horse-power	514		
4-cylinder more than 35 and up to 50 horse-power	30	312,235	
6-cylinder less than 25 horse-power	77,554		
6-cylinder more than 25 and up to 35 horse-power	75,462		
6-cylinder more than 35 and up to 50 horse-power	2,366		
6-cylinder more than 50 horse-power	820	156,202	
8-12-cylinder more than 25 and up to 35 horse-power	285		
8-12-cylinder more than 35 and up to 50 horse-power	3,509		
8-12-cylinder more than 50 horse-power	969	4,763	
Electric		22	473,222

Models

Open cars	143,432	
Closed cars	329,770	473,222

Registrations

Originals	80,170	
Renewals	393,052	473,222

COMMERCIAL CARS REGISTERED—1929

Tires

Pneumatic	51,012	
Solid	3,142	
Municipal	511	
Ontario Government Dominion Government	553	55,218

Gross Weights—Pneumatic Tires

Less than two tons	16,789	
Of two tons and up to three tons	20,306	
More than three tons and up to four tons	6,585	
More than four tons and up to five tons	2,437	
More than five tons and up to six tons	1,281	
More than six tons and up to seven tons	947	
More than seven tons and up to eight tons	1,447	
More than eight tons and up to nine tons	427	
More than nine tons and up to ten tons	789	
More than ten tons	4	51,012

Gross Weights—Solid Tires

Less than two tons	106		
Of two tons and up to three tons	703		
More than three tons and up to four tons	180		
More than four tons and up to five tons	242		
More than five tons and up to six tons	393		
More than six tons and up to seven tons	333		
More than seven tons and up to eight tons	659		
More than eight tons and up to nine tons	237		
More than nine tons and up to ten tons	146		
More than ten tons and up to eleven tons	27		
More than eleven tons and up to twelve tons	115		
More than twelve tons	1	3,142	
Municipal	511		
Ontario Government Dominion Government)	553	1,064	55,218

CONVERTIBLE CARS REGISTERED 1929

Convertible vehicles	8,226

TRAILER REGISTRATIONS 1929

Trailer Gross Weights

One ton or less	3,328
More than one ton and up to two tons	469
More than two tons and up to three tons	205
More than three tons and up to four tons	164
More than four tons and up to five tons	176
More than five tons and up to six tons	128
More than six tons and up to seven tons	53
More than seven tons and up to eight tons	215
More than eight tons and up to nine tons	4
More than nine tons and up to ten tons	16
Municipal	128
Free	17
	4,903

MOTOR VEHICLES BRANCH

Highways Department

Revenue for the Fiscal Year 1928-1929

	Gross	Deductions	Net
Automobile permits	$4,986,418 50	$99,895 45	$4,886,523 05
Commercial permits	1,672,474 00	11,084 85	1,661,389 15
Convertible permits	73,652 50	1,880 15	71,772 35
Trailer permits	39,590 50	45 00	39.545 50
Motorcycle permits	13,631 00	176 50	13,454 50
Automobile dealer permits	59,887 00	....	59,887 00
Commercial dealer permits	7,896 00	....	7,896 00
Motorcycle dealer permits	145 00	....	145 00
Chauffeurs	141,901 00	6,103 50	135,797 50
Operators	485,483 00	40,082 00	445,401 00
Garages	26,955 00	10 00	26,945 00
Public vehicles	152,789 45	....	152,789 45
Public commercial vehicles	36,784 36	....	36,784 36
In transits	18,728 00	1,148 30	17.579 70
Duplicate cards and badges	13,593 75	....	13,593 75
Transfers	189,630 00	5,542 90	184,087 10
Certificates and searches	83 55	....	83 55
Lists	28 90	....	28 90
Fines	95,347 90	542 15	94.805 75
Postage	68 66	....	68 66
Miscellaneous	166 00	....	166 00
	$8,015,254 07	$166.510 80	$7,848,743 27
Express charges paid by agents	....	331 19	....
	$8,015,254 07	$166,841 99	$7,848,412 08
Overpaid by agents			36 50
			$7,848,448 58

Completed Portion of the New Chemical and Metallurgical
Building of the Ontario Research Foundation

Ontario Research Foundation
REPORT

For the Year 1930

Presented by the Chairman to the Lieutenant-Governor in Council
December, 1930

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO

ONTARIO

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1931

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ONTARIO RESEARCH FOUNDATION

May 11th, 1931.

THE HONOURABLE GEORGE S. HENRY,
Prime Minister of Ontario,
Parliament Buildings,
Toronto, Ontario

DEAR SIR,—

I have the honour to submit a copy of the report made to me by Dr. Speakman, Director of the Ontario Research Foundation, covering the work of the Foundation for the year ending December 31st, 1930.

I desire to record grateful appreciation for the untiring, effective, and devoted service given by Dr. Speakman. He is gathering about him a staff of men and women in co-operative effort, who share with him in a significant sense of responsibility to the Legislature for the trust committed to the Foundation.

I am increasingly impressed with what the Foundation may accomplish for Industry, Agriculture, Animal Husbandry, and the development of the natural resources of the country, if all concerned work together in team play, each bringing to a common effort the contribution which training and experience qualify him to offer. There are far-reaching benefits to be derived in bringing to practical knowledge and experience the spirit and findings of men trained in patient, scientific enquiry and investigation. We, of the Foundation, are but at the beginning of the work, and will gain in knowledge and experience as the years go by.

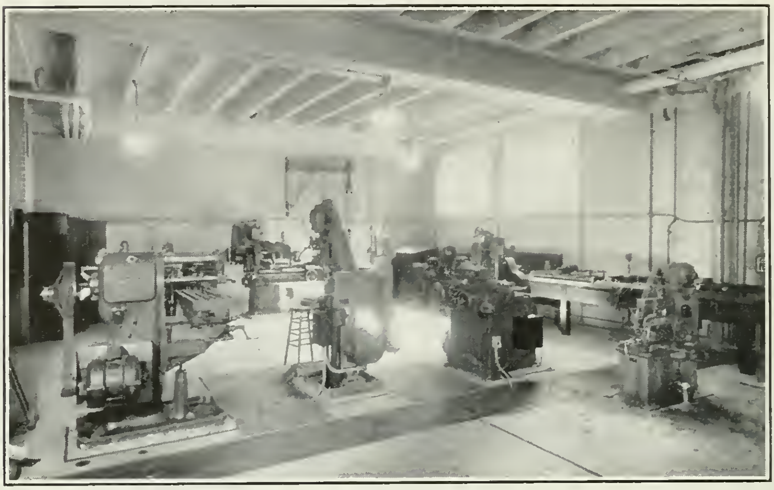
May I express on my own, and the Director's behalf, appreciation of Mr. Ferguson's, your own, and your colleagues' generous and invaluable support.

May I express similar appreciation to Departmental Officers for help afforded, and the hope that we may establish with all Departments of the Government a sense of our desire to work co-operatively with them in such service as we may be able to perform, in bringing a spirit of scientific enquiry to assist them in the practical work with which they are charged.

I have the honour to be,

Your obedient servant,

J. W. FLAVELLE,
Chairman.



Machine Shop, Chemical and Metallurgical Building

Electric Furnace and Heat Treating Room
Chemical and Metallurgical Building

REPORT OF THE DIRECTOR OF RESEARCH, 1930

To Sir Joseph Flavelle, Bart., LL.D.
Chairman.

Dear Sir,—

At the commencement of the past year signs were already in evidence that both industry and agriculture in this country were faced with serious problems. At that time many careful observers were of the opinion that the depression was largely due to a period of speculation which had been corrected and that in a short time conditions would return to normal. As intervening months passed, however, it has become increasingly evident that this dislocation of industry is not due to some simple and isolated cause, that it is world wide in extent, and is due to a number of separate and rather complex phenomena. It is not my intention to attempt any detailed analysis of this situation but I merely record in passing that during the past year the work of the Foundation, particularly that which is based on an association with industry, has inevitably been influenced and in some measure determined by the prevailing conditions. Companies which twelve months ago refused to curtail expenditures on technical control and scientific research have gradually moved from this position, and I think it is justifiable to say that with few exceptions industry on this continent has been driven into a position of cutting down expenditures even in connection with what they understand to be almost vitally important departments. Twelve months ago we had observed no desire on the part of industrialists to discharge technical men and in this respect I distinguish this period of depression from that of 1921-22. During the latter period there was wide-spread unemployment amongst university-trained technical men. The change represents gradual but very definite realization of the importance of technical and scientific work in modern industry. Further evidence of this character is to be found in the report of the Technical Service Council which shows that even during the past twelve months a very large number of our graduates found suitable positions in Canadian industries and consequently a reduced number of these key men have been compelled by circumstances to leave this country.

If companies which have been distinguished in the past for their sympathy and interest in scientific research have been compelled by prevailing conditions to curtail if not abandon activities along these lines, you will readily understand that it has been extremely difficult during the past year to make much progress in developing research activities amongst industrialists as a whole. Speaking generally and basing my observations on contacts with men engaged in a wide range of manufacturing activities, I think I am justified in stating that few if any of the business executives question the principle of applying scientific knowledge to industry, but in stating this I do not wish to imply that the acceptance of the principle necessarily involves any attempt to put it into practice. The problem which has been presented to us by men who undoubtedly support the Foundation in principle has been one of expediency in view of the pressing economic problems, and it is difficult to do anything other than sympathise with this point of view.

It is, however, necessary to reiterate more insistently than before the vital principle that scientific research and technical control are just as essential to a well-organized industrial company as the office administration or the machinery in the plant. Manufacture has been considerably retarded all over the world during the last twelve months but active creative effort of research laboratories has not altogether ceased. The tendency to think in terms of purely quantitative cycles in production may prove fatal to individual companies or an entire industry. There is a qualitative change constantly taking place, not merely are new methods causing serious disturbance in the relative position of different members in any one industry but competition between different industries and different commodities, largely based on scientific research, is so persistent and so intense that the very existence of one or the other may be at stake. I need only mention in this connection the profound disturbance created in the textile industry by the discovery and energetic development of methods for the manufacture of artificial silk. In recent conversation with a merchant of hardwood I learned something of the difficulties which his industry is encountering at the present time. A few days later one of my colleagues visited a plant in the Province which is working under great pressure turning out "hardwood" trimming manufactured by an ingenious process from something which was not hardwood at all. The chief executive of an engineering company recently expressed the view at one of our meetings that his own particular industry has moved, technically and scientifically, more during these last twelve months of so-called depression than during the previous ten years.

During the early stages of our work it was only possible to illustrate the effectiveness of a research laboratory by calling upon the experience of others. During the last year, however, the laboratories have been available for eight months continuously and we are now able to look back over a short period and discover what the effects, if any, have been. There have been no spectacular nor epoch-making discoveries. In the first place by far the greater portion of our time has been taken up by an earnest effort to assist industrialists in the solution of pressing problems and not very much time has been left for the consideration of those fundamental questions which ultimately are the most fruitful. It would not be difficult, however, for me to assemble concrete examples which would justify the statement that important savings and improvements have been brought about greatly in excess of the total amount spent on the Foundation. In the second place, fundamental scientific research by the very nature of things occupies in some instances lengthy periods of careful experimentation and not infrequently the results obtained are negative in character. During the past year steps have been taken to commence in each department of the Foundation a certain amount of scientific work which has originated within the Foundation itself. This work is concerned with the fundamentals of each subject and whilst the results obtained may have a bearing on the methods of manufacture of raw materials the spirit of the enquiry is that of pure science rather than more immediate practical returns.

The agricultural interests of the Province have not escaped the effects of prevailing conditions, and in discussing this problem I shall confine myself to those questions with regard to which scientific men can speak with some authority, namely facts based on scientific experiments and observations. It was recently brought to my attention that in Canada as a whole there is an approximate annual loss of $20,000,000 due to parasites in animals. The experience of the last fifty years has shown what can be accomplished by a policy of sanitary control and treatment based upon the careful study of competent scientists. I raise the question as to what could be accomplished if the scientific knowledge already available, coupled with the observations obtained from a more serious study of outstanding examples, could be used as a basis for an educational campaign amongst the farmers and breeders of the Province. It is alarming to discover that in spite of this annual loss we have not, in the country as a whole, a single scientific man devoting his whole time to the study of animal parasites. In this connection it is impossible to exaggerate the supreme importance of the practising veterinarian. Upon his shoulders must rest, to a large extent, the task of dealing with problems of this type and it involves knowledge and skill on his part and a willingness on the part of the individual farmer to make use of these services. There has been clear evidence during the last two years of a sincere desire on the part of the profession in this Province to take advantage of every opportunity afforded them to gain new experience and to possess available scientific facts. What could be accomplished by a programme of this character has been demonstrated in the United States in the increased production at reduced cost of hogs, and I venture to predict that by a co-operative effort considerable savings to the farmers in this Province could be brought about.

During the last few months we have been in communication with a large number of district representatives and obtained from them information with regard to yields obtained in their districts of various crops. This information has been reduced to a simple table which follows, showing the variation in these yields.

TABLE 1

APPROXIMATE ANNUAL VARIATION IN YIELD OF FARM CROPS IN ONTARIO

Crop	Min. Yield	Max. Yield	Average
Potatoes	25 bushels	500 bushels	113 bushels
Oats	10 "	105 "	36.8 "
Peas	8 "	50 "	18.4 "
Turnips	50 "	1,200 "	205 "
Fall wheat	15 "	60 "	25.3 "
Barley	15 "	55 "	31.2 "
Corn ensilage	5 tons	25 tons	10 tons
Sugar beets	5 "	22 "	10 "

The question naturally arose as to why such wide variations exist and what steps could be taken to raise the average to that obtained by good farming practice. The need for thinking along such lines is also clearly indicated if we take the average yield in Ontario, of potatoes for example, and compare it with the average yield in other countries and districts as shown in Table 2.

TABLE 2

AVERAGE YIELDS PER ACRE OF WHEAT AND POTATOES IN ONTARIO AND OTHER COUNTRIES OF THE WORLD

Name of Country	Wheat Yield per acre 10-year average	Name of Country	Potatoes Yield per acre 5-year average
Denmark	44.4	Invermere, B.C.	1,735 (1 plot)
Shantung, China	42.0	Colorado, U.S.A.	1,145
Netherlands	41.9	Belgium	265
Scotland	39.7	Maine, U.S.A.	262
Belgium	38.9	Netherlands	255
England	33.3	Scotland	250
Irish Free State	32.9	England and Wales	230
North Ireland	31.0	North Ireland	230
Switzerland	30.3	Norway	228
Sweden	30.1	Denmark	223
New Zealand	29.6	Switzerland	220
Germany	27.3	New Zealand	212
Egypt	25.2	Germany	192
ONTARIO	21.5	Canada	150
Canada	16.6	ONTARIO	113

The extreme yields obtained in Colorado and Invermere may be regarded as exceptional, but it will be seen that the average for most countries, with the exception of Canada, is almost double the yield obtained in Ontario. The Foundation is not in a position to suggest any simple remedy which will abolish in a short time these inequalities in production but as I shall show later in this report we are, with very limited resources, endeavouring to state clearly and definitely what are the conditions of soil, climate and cultivation which bring about optimum yields of individual field crops. The investigation already carried out has indicated that in certain soil conditions, for example, it is impossible to obtain a yield of potatoes sufficient to justify the expense of seed and the labour involved. This challenge to higher yields suggests immediately the possibility of greater production and at the present time arouses the criticism that under present conditions it is folly to talk of more agricultural produce. I would suggest, however, in the first place that greater efficiency does not necessarily involve greater production, and even if that were so I believe that over a period of years the success attending such an undertaking, even though a reduced price is obtained, would stabilize agriculture in this Province and remove the serious handicap of high production charges.

During the past year the subscriptions promised by private persons and companies have been paid punctually and with a completeness which is extremely gratifying. We have received during the past year a total amount of $722,160.00. At the present time the endowment fund amounting to $2,059,190.60 is invested in high-grade bonds with an average maturity of 23 years and effective yield of 5.23 per cent. In addition to the income received from these investments the Foundation has been recompensed for work done on behalf of Government Departments, associations and private concerns to the extent of $44,176.01. Last year we closed with a small deficit, but this year's accounts show an operating surplus of $10,761.14. With the experience of the past two years and the system of records and accounts established by the Secretary we can now plan our work ahead and maintain a closer agreement between revenue and expenditure.

In the Spring of the year we obtained possession of the new building and for the first time facilities were available for research work in those departments requiring the use of heavy equipment, such as metallurgy and chemical engineering. The space available has gradually been occupied as fresh problems arose for investigation. We are now equipped to carry on scientific research in textiles, biochemistry, bacteriology, animal pathology, leather, fuels, gas, ceramics, chemistry, physical and chemical metallurgy. This list is a reflection of the encouraging number of contacts established with industry and agriculture, which is also indicated by the growth of the staff. A year ago ten full-time investigators were at work and at the close of 1930 the corresponding number was sixteen.

The work performed by the staff of necessity varies in subject matter and importance. To an increasing extent the time of the senior members of the staff is occupied in personal interviews with visitors to the Foundation. Many enquiries can be answered by personal interviews or a brief search of the literature. From this type of work we pass by gradual stages to the type of investigation which requires months of patient experimentation. In many instances it has been possible to follow up the reports and recommendations made by the staff and I feel justified in stating that savings or increases in turn over have resulted, greatly exceeding in value the total expenditure by the Foundation. It is impossible to express in financial terms the more indirect and intangible benefits to the Province.

In the plans for the new building we included a small lecture room. This has been used not only by the staff but on two occasions during the year meetings were held in the room which were addressed by visiting scientists. Mr. J. G. Pearce, Director of the British Cast Iron Research Association, and Dr. Robert F. Mehl of the U.S. Naval Research Laboratory both gave helpful and interesting lectures to groups of technical men in the metallurgical field. On these occasions the laboratories of the Foundation were thrown open and those attending the lectures spent some time inspecting the apparatus and discussing the work in progress with the staff.

The Library has increased in proportion to the growth of the Foundation and there are now about fifteen hundred text-books and bound journals on the shelves, as well as several thousand reprints and Government reports. We have been fortunate in securing back numbers of some of the most important journals in chemistry and metallurgy and hope to add to this number as sets of value become available. The greatest increase has been in the number of current periodicals received by the Foundation. It was felt that in this way it would be possible to keep in touch with the latest information on subjects of special as well as general interest, and at the present time we receive regularly about one hundred and sixty scientific and trade journals. The majority of these periodicals are subsequently bound and all are available for future reference.

Attached to this report is a record of papers published by members of the staff during the year in various scientific journals. It is largely due to the interest shown by the staff in this side of the work that it has been possible for them to make these contributions to scientific literature in spite of the pressure of more immediate practical problems. It is my opinion that to as large a degree as possible the income derived from the invested trust fund should be devoted to the support of investigations which are concerned with fundamental research. There is no arbitrary division between pure and applied science, and the most practical contribution the Foundation can make to the development of industry and agriculture is by patient enquiry into basic scientific problems associated with them. In addition such a policy is justified by the generally accepted view among scientific men that the best training for the consideration and solution of the practical problems is a broad general education and research experience in fundamental work. It is hoped that as time goes on the experience gained in these laboratories by graduates of our universities will add something to their efficiency and help them to become valuable officers in the technical and scientific departments of Canadian industry and agriculture.

DEPARTMENT OF TEXTILE RESEARCH

Early in the year it was necessary to add to the staff of this division owing to the steadily increasing amount of work. The situation was explained to Professor A. F. Barker of the University of Leeds and to Dr. S. G. Barker, Director of the Wool Industries Research Association, who very kindly co-operated in our attempt to secure a suitable man. We were fortunate in securing Dr. A. C. Goodings who at the time was engaged in fundamental research in the Textile Department of the University of Leeds. In addition to his training in the fundamental sciences and in textile technology, Dr. Goodings has had a varied experience in the practical side of textile work. Before leaving for Canada, again owing to Dr. Barker's kindness, he was permitted to spend a month in the research laboratories of the Association at Leeds. From what has already been accomplished I feel sure that Dr. Goodings will make a real contribution to the scientific and technical development of the woollen industry in this country.

In July, Mr. C. W. Ewing resigned from the staff after giving eighteen months of faithful service to this department. Mr. Arnold Wooller, a graduate of the College of Technology, Manchester, was appointed to the staff. Since coming to this country Mr. Wooller has been actively engaged in scientific work relating to the textile industry. He is well qualified to carry on the routine work of the laboratories.

It has been our desire from the commencement to move as quickly as possible in the direction of fundamental research in this department without sacrificing in any way the day-to-day services which the staff are rendering to the Canadian Woollen Manufacturers Association. During the last few months a separate research laboratory has been equipped and a limited amount of work has already been carried out, largely in connection with the absorption of moisture by wool in the raw and manufactured condition. There is no more important question to the wollen textile manufacturer than the numerous and varied problems associated with the response of wool to changes in moisture content. Practically all the technical information available is based upon processing in the humid atmosphere of Great Britain and other countries. It is well known that speaking generally the atmosphere under Canadian conditions is dry. At the present time there is a lack of definite information with regard to the rate at which woollen goods in various stages of manufacture adjust themselves to humidity changes. Underlying these practical problems is the more fundamental scientific question as to the exact nature of the changes which take place when wool takes up or gives off moisture, and in addition what are the physical and chemical properties of wool containing different amounts of water.

At the present time the laboratory is giving service to members of the Association in connection with testing and control work along the following lines: (1) Chemical testing; (2) Physical testing; (3) Testing for the presence of adulteration in textile products; (4) Analysis of fabric and yarn structure; (5) Study of defects and their removal or elimination from the process; (6) Study of plant methods; (7) Quantitative study of mixtures of textile fibres; (8) Dyes. In addition to these branches of work which make up the bulk of that undertaken for the Association we have received occasional requests for assistance in regard to methods of costing, and each month there is a steadily increasing demand for assistance in the improvement of plant methods. The day-to-day records of this department show that whereas during the year 1929 the specific enquiries attended to were 289 in number, the corresponding figure in 1930 was 488. In view of the fact that industry on the whole was in a depressed condition during the past year it is encouraging to record that the amount of work performed by the laboratory has again almost doubled in comparison with the preceding year. This increase is being maintained and I can only interpret it as being an indication of the increasing desire on the part of the manufacturers to improve their product, and to some extent at least it is an indication that this department is giving satisfaction to the members of the Association.

At regular intervals during the last nine months Dr. Goodings has visited the plants of different members and is gradually establishing a personal contact with the operating executives of the woollen industry. One immediate result of these visits is almost always a request for information and the investigation of problems, and furthermore these visits have led to calls being made by these gentlemen who inspect the laboratories and discuss personally with Dr. Goodings their individual problems. In order to make this exchange of ideas profitable it is becoming increasingly evident that the Library both of books and technical journals must be kept at a high standard. If the Foundation contained no laboratories whatsoever but merely acted as a technical centre for the dissemination of current information its existence would be amply justified. Within the limit of its resources, therefore, an attempt is being made not only in this but in other departments to collect and have easily available up-to-date technical and scientific information.

During the past year I was requested to receive a deputation from the Automobile Manufacturers Association who requested information concerning the Foundation and its method of operation with a view to the establishment of a research fellowship. After some preliminary discussion and an inspection of the laboratories the fellowship was established to undertake in the first place an investigation of the fabrics manufactured in Canada for use in the upholstery of motor cars. An advisory committee representing both the manufacturer of these fabrics and the automobile manufacturer has been appointed. It was necessary to secure immediately a competent scientist to undertake this work under the general direction of Dr. Goodings, and early in 1931 I expect Dr. R. O. Hall of the University of Leeds to commence this work. In preparation for the actual investigation which is to be undertaken Dr. Goodings has made a preliminary visit to various plants and in consultation with the committee has prepared a programme of research which will at first be concerned mainly with problems of colour. A special laboratory for this type of investigation has been prepared and the necessary equipment purchased.

DEPARTMENT OF METALLURGY

During the early part of 1930 the new building was completed, and in the months of February and March the time of the staff was largely occupied in supervising the erection of furnaces and other equipment in the new laboratories. From the first of April onwards most of the apparatus was installed and ready for use. No mention was made last year of the facilities provided for metallurgical research and it may be of general interest to know how the various laboratories are equipped.

Furnace Room

One 35 kv-a. Converter System and Induction Furnace.
One 50 kw. Box-type Annealing Furnace fitted with Globar heating elements, Maximum Temperature 1350° C.
One 29 kw. Box-type Annealing Furnace fitted with metallic heating elements, Maximum Temperature 1000° C.
One 18 kw. Homo Drawing Furnace, Maximum Temperature, 650 °C.

Machine Shop

One 16-inch heavy-duty lathe.
One 24-inch shaping machine.
One Universal grinding machine.
One milling machine.
One 20-inch drilling machine.
One power hack saw.
One cutting-off machine.
One 36-inch band saw.
One bench grinding wheel.

Mechanical Testing Laboratory

One Amsler Universal Testing Machine of 50,000-lb. capacity.
One Izod-Charpy impact testing machine.
Two fatigue testing machines for beam-type samples.
Two fatigue testing machines for cantilever-type samples.
One Brinell hardness testing machine.
One Vickers hardness testing machine.
One Rockwell hardness testing machine.

Metallographic Laboratories

One large metallographic apparatus—Zeiss.
One polishing bench.
One precision potentiometer.

Mill

One Braun-type UA pulverizer.
One Braun Chipmunk crusher, type VC 12, capacity 400 lb. per hour.

It has been gratifying to the staff to be able to report that practically all the equipment has given complete satisfaction and we are grateful to the makers who have co-operated to the fullest extent in supervising the preliminary use of the various pieces of equipment. I am particularly indebted, however, to Mr. Ellis for the large amount of work he put into the preliminary drawings for the new building and in the selection and purchase of suitable equipment.

Shortly after the new laboratories were open it was found necessary to add to the staff of this department, and Mr. C. L. Sherman was appointed to be responsible for the work in the Chemical Laboratory.

The creation of this department arose primarily as a response on the part of the Foundation to a request from the Ontario Chapter of the American Society for Steel Treating that suitable facilities both with regard to personnel and equipment should be provided for metallurgical research. We requested that the manufacturers on their part should organize themselves into a research association to take an interest in and to support financially the work of the department. As a result of several meetings and an intensive campaign, largely through the distribution of bulletins and other literature, about sixty firms agreed to join the Ontario Metal Industries Research Association. This number is lamentably small when we remember that communications were sent to roughly 700 individual companies scattered throughout the Province. The bulletins sent out contained a careful description of the objects of the Association and the facilities which the Foundation was providing for the investigation of day-to-day problems. This literature also brought to the attention of the members the type of information available in the Library, reports on recent developments in metallurgy, and original work under investigation by the staff. In addition to the reluctance of manufacturers to incur any additional expenditure during this period of acute business depression I am sure that the relatively small membership of O.M.I.R.A. is due to the somewhat novel principle underlying co-operative research. Undoubtedly as time goes on more companies will realize the benefits of membership in this Association and I look forward to the formation of smaller groups with scientific interests in common who will support specific research fellowships, and so enable the department to cover more adequately the large field for which it is responsible. One of the members of O.M.I.R.A. is supporting at the present time a full-time worker for the investigation of a major problem.

The time of Mr. Ellis and his staff has been almost fully occupied on the work sent in by various members of the Research Association. We have refrained from engaging in any routine analytical work and all the questions submitted by members have involved to a greater or lesser extent laboratory investigations. In all forty reports have been sent to one or more members. Some of these reports have necessitated detailed investigation of materials and processes, and the recommendations based on these results have brought about important changes in the products made by the members. Characteristic specimens of these reports are listed below:

Mechanical Properties of Steels Drawn at Various Temperatures Subsequent to Quenching at One Temperature.
Heat Treatment of Spring Clips for Automobiles.
Report on Welds Made by the Atomic-hydrogen Arc-welding Process.
Investigation of the Design and Mechanical Properties of Turnbuckles.

Report on Fatigue Properties of Steel.
Study of the Preparation of Sheet Steel for the Enamelled Parts of Automobiles.
Report on the Mechanical Properties of Heat-treated Steel for Agricultural Implements.
Report on the Mechanical Properties of High-strength Cast Iron.

In addition to these investigations a large number of enquiries have been made either personally or by letter which could be answered without experimental work in the laboratories. In many cases these replied have resulted in quite appreciable savings to the companies concerned. This branch of the work, as is the case in other departments, is gradually increasing and a large proportion of the time of Mr. Ellis is occupied in this way. Insofar as it interferes with the prosecution of laboratory investigations the situation is unfortunate but on the other hand there is convincing evidence that by making scientific and technical knowledge available to the members of the Association, real service is being rendered. It is our hope that gradually more and more of this work will be done in the various plants by technical officers of the companies, thereby liberating the staff of the Foundation for more fundamental investigations.

During the past year three large and two small reports have been issued to the members of the Research Association as a whole. The three quarterly reports contained notices of meetings, lists of reports issued to members, visits made to various plants and a very complete set of abstracts of articles in metallurgical literature. The two smaller reports were in the form of monthly bulletins but contained no abstracts. During the year recognition of the fact was made that "Metals and Alloys" was providing for its subscribers an excellent abstract service and to avoid duplication of effort use is now being made of the published abstracts which are brought to the attention of members of the Association.

In addition to the work originating in the plants of members of the Research Association, an attempt has been made to have some independent fundamental research work performed by the three senior members of the staff. Mr. Ellis has at irregular intervals been devoting his attention to an investigation on the effect of Nickel on Bronze. A series of forty-five alloys varying in nickel content up to 8 per cent. and in tin content to from 10 to 15 per cent. have been prepared and examined. Interesting results have already been obtained but it is too early to state definitely what are the conclusions to be arrived at. Mr. Sherman is studying the effect of Cold Work on metals and alloys. He has been specially interested in confirming the existence of a critical range of deformation in copper and has succeeded in doing so in the case of ⅛-inch wire. This work will also be continued.

At the request of the Minister of Mines, the Hon. Charles McCrea, the Foundation has undertaken an investigation of some of the properties of Ontario iron ores. Since the month of September, Mr. Gordon has been devoting his whole time to this investigation. With the co-operation of the Deputy Minister of Mines and officers of his Department we have secured large fresh samples of ore from six deposits in the Province: (1) New Helen, (2) Atikokan, (3) Moose Mountain, (4) Grand Rapids, (5) Lount Township, (6) Animiki. The material sent in from each of these deposits has been crushed, sampled and analyzed. Towards the end of the year Mr. Gordon's time was largely devoted to the designing and erection of an electrically heated furnace for the purpose of studying the reducibility of these ores with both gaseous and solid-reducing agents, including lignite char obtained from Onakawana lignite (Northern Ontario). The experimental data obtained during the progress of this research will undoubtedly be of value to operators who may contemplate the use of these ores on a commercial scale.

The machine shop which is an integral part of this department has not only rendered most useful service in the preparation of test pieces for investigation by members of this department, but in addition has proved a most useful assistance to the Foundation as a whole during the past year. Several pieces of experimental apparatus have been constructed and are now being used in various researches in the Foundation.

DEPARTMENT OF VETERINARY SCIENCE

Before joining the staff of the Foundation, Dr. Hadwen had for sometime been engaged in an investigation of the factors controlling the production of pigment in the hair and skin of various animals. As a continuation of this work Dr. Hadwen during the past year has made a thorough investigation of the mechanism of pigment production associated with melanosis in animals. A report of the work was presented at the Winnipeg meeting of the British Medical Association, and in a short time two scientific papers will be ready for publication.

Owing to the co-operation of officers of the Federal Department of Agriculture and the various meat-packing plants in the district, the staff of this department have been provided on many occasions during the year with interesting material which merited investigation. As an example I should like to mention briefly the damage done to the intestines of pigs by thorn-headed worms (*Macracanthorynchus hirudinaceous*). The majority of these pigs came into the plants from Kent and Essex Counties, and the damage to the intestine is such that the material is seriously affected and unfit for use in the production of sausage casings. At the present time no information is available as to the extent of the damage done to the general health of the pigs infected with this parasite. We are hoping also to secure more information with regard to the life of the parasite and the alternate host, in this case a white grub. At present no one knows which species carry the larvae of the parasites in Ontario and on this account protection cannot be instituted with any intelligence other than to keep the pigs closely confined.

During the autumn months our attention was called to a number of cases of Red Water in cattle which had been found to exist sporadically in the Guelph district. In co-operation with Dr. Cote of Guelph the staff of the department have examined a number of cases and one animal was purchased and autopsied to secure as complete a record of the disease as possible. It has been found that the disease is more common than we first supposed, and it is hoped that in co-operation with the practising veterinarians in whose districts cases are known to occur progress will come in the elucidation and treatment of the disease. A preliminary report of the work was presented at a recent meeting of the Ontario Veterinary Association.

The destruction of the hides of cattle by warbles is sufficiently well known to make it unnecessary to discuss the situation in great detail. At the present time the staff are arranging for the treatment of several herds by a simple method to prevent the penetration of the hides by the destruction *in situ* of the parasites. The results obtained so far are very encouraging but until the records are more closely studied during the summer months it will be impossible to state accurately what the results of these tests have been. In addition to this method for the destruction of these parasites Dr. Hawden and his colleagues in collaboration with Dr. Kingscote of the Ontario Veterinary College are investigating the possibility of immunizing stock against them. It is hoped at the same time to secure additional information with regard to the migration of the parasite through the animal body. The programme of research under way at the present time in the department has only been made possible by the co-operation of the Provincial and Federal Departments of Agriculture, the Ontario Veterinary College and an increasing number of practising veterinarians who are co-operating with the staff particularly in field work and the securing of animal material for investigation.

The programme of field work and laboratory investigation in connection with Contagious Abortion in cattle which was briefly outlined in my first report was continued during the past year. Information from twenty-two herds covering a period of nine months is now on record. This group of herds was composed of those associated with Government institutions, with breeders of high-grade stock and typical Ontario farmers, so that the composite picture is a fairly representative one. The blood of each animal was submitted to the agglutination test at regular intervals, a large number of milk samples and the products of abortions were tested, and parturitions were submitted wherever possible to a careful bacteriological investigation. A report of the work was submitted to the Minister of Agriculture, Col. The Hon. T. L. Kennedy, by the Chairman of the Advisory Committee, Dr. T. A. Russell. In his summary of the work accomplished Dr. Russell calls attention to one or two significant and important figures. The abortion rate per annum in positive and suspicious animals was 13.7 per cent. compared with a rate of 1.2 per cent. for negative animals. Losses from premature births and still-born full-time calves increased the calf loss to 16.8 per cent. per annum in reacting cows compared with a rate of 1.3 per cent. for the negative group. In the positive and suspicious group of animals the herd records kept by those in charge indicate the presence of 17.7 per cent. for irregular breeders, the corresponding figure for the negative group of breeders being 3.9 per cent. Retained placentae occurred in 5.2 per cent. of the positive group against 0.4 per cent. in the negative. Basing his conclusions on these results and on the known figures for breeding cattle in the Province as a whole, Dr. Russell is of the opinion that this disease is causing an annual loss to the Province in the neighbourhood of three and a half million dollars.

There has been, and still is, a considerable amount of discussion amongst veterinarians and the owners of live stock as to the value of the agglutination test. Our records show that provided the samples of blood are carefully collected and the test carried out with the necessary precautions that whilst it is not perfect it possesses a high degree of efficiency and can be used satisfactorily in the detection and eradication of Bang's disease. The confidence of the workers in this department in the test has been supported by the records obtained from herds in which control measures were attempted based on the agglutination test.

In eight cases some system of control has been introduced and at the end of the first year four out of the eight were entirely clean and in each of the other four cases only one positive or suspicious animal was to be found.

A large amount of laboratory experimental work has been carried out in connection with this disease during the past year. In an attempt to obtain a lead for the development of some method of prevention a careful study was made of the effect of killed cultures and filtrates of *Br. abortus*. If any of these preparations had shown promise in the prevention of infection in guinea pigs it was planned to continue the work in cattle. So far preparations of the organism killed by heat, phenol, formalin and chloroform have not afforded any protection to vaccinated animals when submitted to experimental inoculation. The criterion of investigation used was the development of lesions in the spleen after inoculation through the eye and by mouth. The technique developed by Dr. Gwatkin in this work has enabled very satisfactory results to be obtained even though they are of a negative character. Dr. Gwatkin is continuing his search for a bacteriophage against *Br. abortus*. The hope is that if some lytic agent of this nature could be developed a possibility of its use on animals would be of great importance. In the search for some chemical reagent which might be of value in the treatment of the disease, a careful study has been made of the action of formalin and mercurochrome. Both these chemical compounds were found out to be of no value. The scientific studies carried out during the year have been fully written up and will shortly be published in scientific journals. We are greatly indebted to the Advisory Committee for their constant encouragement and support. The work has only been made possible by the co-operation of the owners of herds and those in charge of them. We are indebted to them for the records which have been kept and also for the material sent in to the laboratories for examination.

During the last Royal Winter Fair a meeting was called for the purpose of presenting to interested stock breeders and others the work done by the Foundation in this connection and to discuss generally the problem of Bang's disease. Interesting addresses were given by Dr. T. A. Russell, Dr. George Hilton, Veterinary Director-General; Professor J. G. FitzGerald and Dr. Gwatkin. The meeting was well attended.

DEPARTMENT OF CHEMISTRY

During the past year the vacant space allotted to this department in the new building has been gradually taken over and equipped for chemical investigation. At the present time the staff consists of the Director, four Research Fellows and four laboratory assistants. Five separate laboratories are equipped for investigations along the following lines: (1) ceramics, (2) fuel, (3) gas, (4) physics, (5) general chemistry.

The ceramics laboratory contains the bare essentials for determining the routine drying properties of small clay test pieces, and sufficient special apparatus in connection with the specific problem relating to the effect of mechanical pressure. No kilns, dryers or other large equipment has been purchased because up to the present there has been no demand for investigations along these lines. The fuel laboratory is well equipped for routine fuel testing, particular mention should be made of the Gray-King low-temperature assay apparatus. The equipment of the physics laboratory has been purchased mainly in connection with the measurement of radio active material in minerals and geophysical investigations. The gas laboratory is very completely equipped for routine gas testing and also for the special research in progress at the present time.

Mention was made in last year's report of the technical and economic survey which Dr. Westman was making in connection with the production of electrolytic hydrogen and oxygen. The assembly of reliable cost data was made possible only by the generous co-operation of several companies in Canada and the United States. A preliminary report was submitted to the technical officers of several companies and to specialists in the universities. It was only after this prolonged and careful investigation that Dr. Westman finally published a paper entitled "The Production of Electrolytic Hydrogen and Oxygen." In this same general connection mention should also be made of a paper which was read by Dr. Westman at the Ottawa meeting of the Canadian Chemical Society, in which he discussed the use of oxygen in the manufacture of producer gas. It has been gratifying to receive from companies interested in the production of synthetic ammonia expressions of their appreciation of this work.

At the request of the Department of Mines, Mr. McDowell examined the gamma-ray activity of uraninite and concentrates from the Wilberforce radium deposit. The measurements were made with a special type of electroscope built in the workshop of the Foundation. The results obtained indicate that the use of the radium-uranium ratio was justified in calculating the radium content of Wilberforce uraninite. The concentrates used in this investigation were kindly supplied by the Department of Mines, Ottawa.

The main problem under investigation in the fuel laboratory is in connection with the technical development of the Onakawana lignite deposit. Early in the year it was decided to appoint a fully qualified fuel technologist to be responsible for this work. A request was made to Dr. Sinnatt, Assistant-Director of the Fuel Research Station at Greenwich, England, to secure if possible a suitable man for this appointment. We are deeply grateful to Dr. Sinnatt and the Fuel Research Board for making it possible for Mr. Tasker, one of their senior officers, to relinquish his post and join the staff of the Foundation. Before leaving for Canada, Mr. Tasker spent some time in London establishing contacts and making provision for continuous supplies of information relating to fuel developments in Europe. He also visited Germany and represented the Foundation at the World Power Conference in Berlin. He then made a careful survey of the operating lignite mines in Germany and the processes relating to the utilization of the fuel. As a result of this visit and the contacts which Mr. Tasker made in Germany we have now available the essential facts relating to German practice. The study has been greatly assisted by further help given by Dr. F. A. Oetken, Herr Klitzing and Dr. F. Mueller. These gentlemen are well-known German specialists in fuel research who have visited the Foundation during the year and discussed with members of the staff our own problems. A somewhat similar development is taking place in New South Wales, Australia, and again, owing to the courtesy of the State Electricity Commission of Victoria, we have been provided with complete records of the recent investigations and results obtained since the undertaking reached the production stage. We are thus gradually accumulating, as far as possible, a complete record of similar developments in Germany, Australia, the United States and Western Canada.

During the summer months a large sample of the lignite present in Northern Ontario was shipped to the Foundation and using this material a preliminary survey of the physical and chemical properties of the lignite has commenced. In this connection a satisfactory rapid method for the determination of moisture in the lignite has been perfected. Steps have been taken to equip at the deposit a routine laboratory at which tests will be made in connection with a survey of the lignite as the material is exposed during the sinking of a new shaft. The type of mining and subsequent treatment to be adopted will depend very largely on the information secured by this careful survey.

A limited amount of work has also been done in the laboratory in connection with the briquetting of lignite and the preparation of lignite char. An externally heated metal retort for carbonizing large samples at 600° C. has been constructed and tested.

The Foundation enjoyed the privilege, during the summer months, of being associated with the Geological Survey of Canada and the Ontario Department of Mines in the investigation of certain methods of geophysical prospecting. Mr. Hawkins was a member of a party under the direction of Dr. Gilchrist of the University of Toronto and during this time gained valuable experience and training. In the month of August, Dr. Gilchrist and Mr. Hawkins conducted resistivity measurements on the Onakawana lignite deposit and compared the results obtained by this method with the logs of drill holes in the area. Later Mr. Hawkins returned to the field with a party and made a more extensive survey. In addition, during sinking of the shaft in connection with the lignite deposit, Mr. Hawkins has made resistivity measurements *in situ* of the various clay formations in the area. When these measurements are complete they will afford an interesting comparison with those secured by surface determinations. The investigations are preliminary in character and it is too early to express any view as to whether or not geophysical methods can be used for the determination of the presence of lignite in this area. This work has clearly shown, however, that measurements of this character can be continued during the winter season with no complications due to the freeze up, and in addition transportation is more rapid and convenient.

The work in progress in the gas laboratory is in connection with a research fellowship supported by the Consumers' Gas Company. Before experimental work commenced Mr. Maconachie spent several weeks in the plant and different departments of the company. The experience which he gained in this work and the contacts which were established proved invaluable. I desire to express my appreciation of the courtesy extended by Mr. Hewitt and officers of the company.

The principal problem under investigation during the year is that relating to the formation of a white coating on the outside of some domestic chimneys, and the general deterioration of the structure. Both these conditions are caused by the action of condensate from flue gases formed by the burning of fuels rich in hydrogen. The composition of this condensate has been determined; a rapid efflorescence test for bricks and wallettes developed, and a rapid test for experimental small chimneys. It has been found that under some conditions efflorescence can be caused by water alone, but that the condition is more pronounced when the condensate contains sulphuric acid formed from sulphur dioxide present in the gases. Various protective coatings have been tested and encouraging results obtained. Field observations are being made at the same time with the co-operation of officers of the company and service tests of some alloys and one protective coating are being made in domestic installations.

Dr. Westman has commenced in the ceramics laboratory an investigation of a new method for determining the rate of water loss in plastic clay bodies when subjected to mechanical pressure by means of water-permeable pistons. The necessary apparatus and technique have been developed to enable the rate of water loss of clay discs to be determined at mechanical pressures ranging from about 100 lbs. per sq. in. to 10,000 lbs. per sq. in. It has been found during the investigation that certain clay discs when submitted to these high pressures, and under these conditions, actually expand when further drying takes place in air.

During the year Dr. Westman published an important theoretical paper entitled "The Packing of Particles." It was published in the Journal of the American Ceramic Society.

The Foundation was represented by members of the department at nine important scientific meetings in the United States, Germany, and Canada during the year, and the Director of the department is a member of several important technical committees of the American Society for Testing Materials which is interested in the application of modern statistical methods to the quality control of mass production. Dr. W. A. Shewhart of the Bell Telephone Laboratories is the leader of the group and he has shown already in the affairs of his own company the tremendous value of these methods. The contact which the Foundation has with this work will lead, I hope, to a wider application in Ontario of the methods suggested by this important committee. Dr. Westman himself has taken a leading part in the preparation of a refractory test manual which was published in the Proceedings of the American Society for Testing Materials and has been used extensively. Already a revised edition is being prepared.

In the laboratory devoted to general chemical problems a variety of minor questions submitted to the Foundation by various firms in the Province have been investigated and reported upon. Mr. McDowell has also commenced an investigation of some of the fatty acids present in vegetable oils. These oils are the raw material for an increasing number of industrial processes, and more accurate and basic scientific knowledge is required for further progress.

DEPARTMENTS OF BIOCHEMISTRY AND PHYSIOLOGY

In the month of May, Mr. Tennyson Jarvis joined the staff to undertake research work in connection with agricultural problems. Mr. Jarvis is a graduate of the Ontario Agricultural College and subsequently studied at Cornell University and at Oxford. For ten years he was an officer of the International Nickel Company and during that time carried on intensive investigations on agricultural problems in the Sudbury district.

During the last twenty-five years a branch of biology known as ecology has gradually developed and the findings of research workers in the field are now being considered from the point of view of their practical application. In brief, the ecologist attempts to study the particular coincidence of conditions which most favours the characteristic plant or some modification of the normal which may be desirable for economic reasons. The crop produced is a direct result of (*a*) the variety of the species planted, (*b*) the climatic environment during the life history of the plant, and (*c*) the type and quantity of available nutriment. Certain factors which contribute to the coincidence, such as the available nitrogen in the soil, are under the control of the cultivator to a more or less degree; other important factors, such as the length of growing season or variations in light intensity cannot be changed. In some experimental work on field crops and in a great deal of practical agriculture no attention is paid to the law of limiting factors, first enunciated by Blackman. This law states that when some contributing factor, *e.g.*, sunlight or moisture, is limiting the speed or quantity of growth no improvement is possible by increasing or diminishing associated factors, *e.g.*, temperature or mineral supplies. In experimental work it is obviously necessary to keep all factors in excess other than the one which is the object of scientific investigation.

During the summer and autumn months a careful study has been made of that portion of the Province east of a line from Kingston to Ottawa. The types of soil, natural flora and cultivated crops have been recorded, and this information is being collated with geological formations and the data relating to climatic conditions such as rainfall, length of day and temperature. At the same time Mr. Jarvis is preparing a series of the most favourable co-incidences with regard to standard crops, such as potato, wheat, barley and oats, based on a careful study of the scientific agricultural literature. We hope in this way to compare existing conditions in a particular agricultural section of the Province with the conditions demanded by agricultural theory. It may be possible to make definite recommendations when the investigations at present under way are more advanced.

A study of the records so far obtained, particularly the photographs of various stretches of cultivated country, clearly indicates the necessity for a more scientific utilization of land and a better correlation of crops and prevailing conditions. If further evidence were required it is to be obtained by observing the considerable variations in the yields obtained of the same crop by individual farmers in an area which is superficially uniform. This apparent uniformity disappears on more careful study of such a fundamental factor as soil. In the eastern counties Mr. Jarvis has already listed eighteen distinct types of soil. We hope that in time it will be possible for the farmer to substitute accurate knowledge regarding his own farm for broad generalizations which break down under individual trial. Such a scheme demands the good-will and active co-operation of the individual farmer, and without them progress is impossible. What can be accomplished if the farmer, the extension worker and the research laboratory work as a team has been clearly demonstrated in Denmark and other countries.

During the past year Dr. Barbour has continued his investigations on behalf of Canada Packers, Limited. In addition to the major problem commenced last year investigations have been carried out on the low temperature preservation of meats and the vitamin content of tomato joice preparations. The apparatus and animal colonies for the vitamin work are standard in type and will be available for general work of a similar character.

After a long discussion with a fairly large and representative group of leather manufacturers in the Province, three companies agreed to co-operate in the support of a research laboratory. The necessary accommodation was provided and we were fortunate in securing the services of Mr. W. C. Henry who at that time occupied an important position in the laboratories of an American company. He graduated from the University of Toronto after a thorough training in chemistry and microbiology and spent six years securing practical experience in the production of leather in both Canadian and American plants. Since coming to the Foundation he has placed at the disposal of the three companies this broad experience and scientific training. The results obtained have been most gratifying. He has for several months been engaged in a careful study of methods for the manufacture of patent leather. The results obtained on a laboratory scale are very encouraging, and we hope in the near future to submit them to the more critical test of large-scale operations.

During the last twenty-five years great progress has been made in our knowledge and understanding of the nature of the protein molecule and of its physical and chemical properties. This scientific information has profoundly affected the views of medical men and physiologists. Leather is essentially a protein but it is not an exaggeration to say that the progress in protein and colloid chemistry has so far hardly increased the general understanding of the nature of leather or modified methods of manufacture in this country. In the United States and Great Britain on the other hand a correlation is being established between the fundamental sciences and leather technology, and the same relationship must be established in this country if this industry is to progress.

Mr. B. P. Skey has continued his investigations into the history of co-operative marketing in Ontario. His work has been done in the Department of Political Science, University of Toronto. The story of co-operative movements for the sale of apples, honey, wool and cheese has been secured from a mass of original documents. I feel sure that based on this intensive work Mr. Skey will be able to formulate conclusions which will be of value to the agricultural interests of the Province.

Miss Forward has continued her work in the Department of Botany and has already obtained a good deal of fundamental information regarding the nature of resistance in wheat to rust.

Mr. Jukes who graduated with honours at the Ontario Agricultural College, Guelph, during the year was granted a fellowship and at the present time is working in the Department of Biochemistry, University of Toronto.

It was our privilege during the year to assist Professor Bruce of Queen's University in connection with a visit to Finland to examine, in association with Dr. Sederholm, the pre-Cambrian geology of that country.

Appendix A

ONTARIO

Executive Council Office

Copy of an Order-in-Council approved by The Honourable the Lieutenant-Governor, dated the 14th day of May, A.D. 1929.

Upon recommendation of the Honourable the Prime Minister, the Committee of Council advise that under the provisions of The Research Foundation Act, 1928, as amended by The Research Foundation Act, 1929, Your Honour may be pleased to designate as members of the Ontario Research Foundation such persons as have, or may hereafter, become subscribers to the Foundation.

The Committee further advise that Sir Joseph Flavelle, Bart., of Toronto, be appointed Chairman of the Foundation, and J. Stanley McLean, Esquire, of Toronto, be appointed Vice-Chairman.

And the Committee further advise that the following members of the Foundation constitute an Advisory Board to act with the Chairman, Vice-Chairman and Executive officers of the Foundation:

W. J. Bell, Esq., B.S.A.	Principal, Kemptville Agricultural School, Kemptville, Ontario.
J. P. Bickell, Esq	President, McIntyre-Porcupine Mines, Ltd., Standard Bank Bldg., Toronto.
J. H. Black, Esq	Vice-President, Spruce Falls Power and Paper Co., 330 Bay St., Toronto.
N. E. Bolton, Esq	Research Department, T. Eaton Co., Ltd., Toronto.
Thomas Bradshaw, Esq	President, North American Life Assurance Co., Toronto.
H. H. Champ, Esq	Treasurer, The Steel Company of Canada, Ltd., Hamilton, Ontario.
G. I. Christie, Esq., B.S.A., D.Sc.	President, Ontario Agricultural College, Guelph, Ontario.
A. L. Clark, Esq., B.Sc., Ph.D	Dean, Faculty of Applied Science, Queen's University, Kingston, Ontario.
Elmer Davis, Esq	Vice-President, A. Davis & Son, Ltd., Kingston, Ontario.
R. C. Dearle, Esq., M.A., Ph.D	Professor of Physics, University of Western Ontario, London, Ontario.
W. A. Dryden, Esq	Stockbreeder, Maple Shade Farm, Brooklin, Ontario.
Kenneth J. Dunstan, Esq	The Bell Telephone Company of Canada, 76 Adelaide St. W., Toronto.
J. G. FitzGerald, Esq., M.D	Director, School of Hygiene and Connaught Laboratories, University of Toronto.

E. Holt Gurney, Esq	President, Gurney Foundry Co., Ltd., 4 Junction Rd., Toronto.
R. M. Jenkins, Esq., V.S	Manager, Don-Alda Farm, Donlands, Ontario.
Louis Lang, Esq	President, Lang Tanning Co., Ltd., Kitchener, Ontario.
G. C. McEwen, Esq	Vice-President and Works Manager, Imperial Varnish & Colour Co., Ltd., 60 Morse Ave., Toronto.
Robert McEwen, Esq	Stockbreeder, Alloway Lodge Stock Farm, Byron, Ontario.
George McLaughlin, Esq	Box 235, Oshawa, Ontario.
J. C. McLennan, Esq., O.B.E., Ph.D., F.R.S.	Professor of Physics, University of Toronto.
Humfrey Michell, Esq., M.A	Professor of Political Economy, McMaster University, Hamilton.
Robert Miller, Esq	Stockbreeder, Stouffville, Ontario.
W. Lash Miller, Esq., B.A., Ph.D	Professor of Physical Chemistry, University of Toronto.
Paul J. Myler, Esq	President, Canadian Westinghouse Co., Ltd., Hamilton, Ontario.
T. A. Russell, Esq., LL.D	President, Willys-Overland Co., Ltd., 1209 King St. W., Toronto.

ADVISORY RESEARCH COMMITTEES

Canada Packers, Ltd., Research Committee

H. E. Corman, B.A.Sc.	Chief Chemist, Harris Abattoir Co., Ltd., Toronto.
E. C. Fox, B.A	Vice-President in Charge of Production, Canada Packers, Ltd., Toronto.
W. G. McLeod, B.Sc	General Superintendent, Canada Packers, Ltd., Toronto.
C. F. Thurlow	Superintendent, Wm. Davies Co., Ltd., Toronto.

Contagious Abortion in Cattle—Committee of Enquiry

Chairman:	
T. A. Russell, B.A., LL.D	President, Willys-Overland, Limited, Toronto.
Vice-Chairman:	
Geo. W. McLaughlin	Stockbreeder, Oshawa, Ontario.
Secretary:	
Ronald Gwatkin, D.V.Sc	Fellow in Veterinary Research, Ontario Research Foundation; Bacteriologist, Ontario Veterinary College, Guelph.
F. G. Banting, M.C., M.D., LL.D.	Professor of Medical Research, University of Toronto.

W. A. Dryden	Stockbreeder, Maple Shade Farm, Brooklin, Ontario.
J. G. FitzGerald, M.D., LL.D.	Director, School of Hygiene, University of Toronto.
Seymour Hadwen, D.V.Sci	Director of Veterinary Research, Ontario Research Foundation.
Oskar Klotz, M.B., M.D., C.M.	Professor of Pathology and Bacteriology, University of Toronto.
C. D. McGilvray, V.S., M.D.V., D.V.Sc	Principal, Ontario Veterinary College.
E. A. Watson, V.S	Chief Animal Pathologist, Health of Animals Branch, Ottawa.

Ontario Metal Industries Research Association Advisory Committee

H. M. Black	Canadian General Electric Co., Ltd., Toronto.
M. L. Doelman	Gurney Foundry Co., Ltd., Toronto.
A. R. Goldie	Babcock-Wilcox & Goldie-McCulloch, Galt.
C. B. Hamilton, Jr	Hamilton Gear & Machine Co., Ltd., Toronto.
H. U. Hart	Canadian Westinghouse Co., Ltd., Hamilton.
Roy Kirby	Durant Motors of Canada, Ltd., Leaside.
F. A. Loosley	Dominion Foundries & Steel, Ltd., Hamilton.
H. Malley	Sawyer-Massey, Ltd., Hamilton.
J. G. Morrow	Steel Company of Canada, Ltd., Hamilton.
N. F. Petersen	Canadian Acme Screw & Gear Co., Ltd., Toronto.
Dudley Roden	Roden Bros., Ltd., Toronto.
O. H. Shenstone	Massey-Harris Co., Ltd., Toronto.
A. H. Tallman	Hamilton.
F. Tissington	Tools & Hardware, Ltd., Orillia.

Automobile Manufacturers Standards Committee

F. B. Kilduff	Oriental Textiles, Oshawa.
M. C. Millman	General Motors of Canada, Ltd., Oshawa.
C. E. Tilston	Willys-Overland, Ltd., West Toronto.

Appendix B

ONTARIO RESEARCH FOUNDATION STAFF

December 31st, 1930

Director: H. B. Speakman, D.Sc. (Manc.).
Secretary: Ralph Skelton, B.Sc. (McGill).
Assistant Secretary: Miss Marjorie Steele, B.A. (Tor.).
Librarian: Miss Maynard Grange.

Department of Metallurgy

Director: O. W. Ellis, M.Sc. (Birm.).
Secretary: Miss L. L. Blackburn.
Research Fellow: J. R. Gordon, B.Sc. (Queen's).
Research Fellow: C. L. Sherman, B.A.Sc. (Tor.).
Instrument Maker: J. F. Low.

Department of Chemistry

Director: A. E. R. Westman, M.A., Ph.D. (Tor.).
Secretary: Miss Marjorie McPherson.
Research Fellow: S. E. McDowell, A.B. (McMaster), S.M. (Chicago).
Research Fellow: Cyril Tasker, M.Sc.Tech. (Manc.).
Research Fellow: Ralph Hawkins, M.A. (Tor.).
Research Fellow: J. E. Maconachie, B.A. (Tor.).

Department of Textile Research

Director: A. C. Goodings, Ph.D. (Leeds).
Research Fellow: Arnold Wooller, M.Sc.Tech. (Manc.).
Assistant: Frank Bishop.

Department of Veterinary Science

Director: Seymour Hadwen, D.V.Sci. (McGill), F.R.S.C.
Research Fellow: Ronald Gwatkin, V.S., D.V.Sc.
Research Fellow: J. C. Brown, V.S., B.V.Sc.
Animal Keeper: J. E. Pritchard.

Department of Biochemistry and Physiology

Director: H. B. Speakman, D.Sc. (Manc.).
Secretary: Miss Ruth Mackenzie.
Research Fellow: T. D. Jarvis, B.S.A. (Tor.).
Research Fellow: A. D. Barbour, B.A.Sc., M.A., Ph.D. (Tor.).
Research Fellow: W. C. Henry, B.A. (Tor.).

Extra Mural Fellowships

Miss Dorothy Forward, M.A. (Tor.), Department of Botany, University of Toronto.
A. J. Jukes, B.Sc.A. (Tor.), Department of Biochemistry, University of Toronto.
B. P. Skey, A.E. (Prague), Department of Political Science, University of Toronto.

Appendix C

LIST OF PUBLICATIONS TO DECEMBER 31st, 1930

BARBOUR, A. D.

A Useful Constant for Oil Identification. The Use of the Kaufmann Thiocyanogen Value in the Analysis of Fats and Oils. *Oil and Fat Industries*, 1930, *7*, pp. 255-257.

ELLIS, O. W.

Constitution of the Tin-Antimony-Copper Alloys used as Bearing Metals. *American Society for Steel Treating Handbook*, December, 1929, Sn-1402.

Structure of Tin-Antimony-Copper Alloys used as Bearing Metals. *Ibid.*, December, 1929, Sn-2402.

The Solidus of the Iron-Carbon System. *Metals and Alloys*, 1930, *1*, pp. 462-464.

Oxides in Brass. *American Institute of Mining and Metallurgical Engineers*, Technical Publication, No. 283, February, 1930.

GOODINGS, A.C.

Faults in the Manufacture of Wool Goods: 1. Defects in Raw Materials. *Canadian Textile Journal*, 1930, *47*, No. 35, August 28th, 1930.

2. Defects in Yarn Processing. *Ibid.*, No. 39, September 25th, 1930.

3. Defects in Weaving. *Ibid.*, No. 43, October 23rd, 1930.

4. Defects in Dyeing and Finishing. *Ibid.*, No. 48, November 27th, 1930.

GWATKIN, R.

Formaldehyde and Mercurochrome in the Treatment of Rabbits infected with *Brucella Abortus*. *Journal of the American Veterinary Medical Association*, 1930, *77*, pp. 743-745.

WESTMAN, A. E. R.

The Use of Oxygen in the Manufacture of Producer Gas. *Canadian Chemistry and Metallurgy*, 1930, *14*, pp. 229-231.

The Production of Electrolytic Hydrogen and Oxygen. *Ibid.*, 1930, *14*, pp. 338-350;

and HUGILL, H. R.

The Packing of Particles. *Journal of the American Ceramic Society*, 1930, *13*, pp. 767-779;

and MCDOWELL, J. SPOTTS

Manual for Interpretation of Refractory Test Data. *American Society for Testing Materials*, 1930, *30*, pt. 1, 27 p.

ONTARIO RESEARCH FOUNDATION

Income and Expenditure

For the Year Ended December 31st, 1930

Income

Bond Interest:			
Received	$53,259 69		
Accrued	23,548 74		
		$76,808 43	
Other Interest:			
Bank	$4,004 29		
Sundry	2,621 25		
		6,625 54	
Received for Researches:			
From Industrial Corporations	$22,512 71		
From Government Departments	21,663 30		
		44,176 01	
Discounts taken		182 28	
Total Income			$127,792 26

Expenditure

Salaries:			
Laboratory Salaries	$58,095 74		
Other Salaries	18,972 47		
		$77,068 21	
Laboratory Expense:			
Chemicals	$767 58		
Apparatus	1,947 26		
Other Supplies	3,676 68		
Travelling	5,180 32		
Sundry	4,678 08		
Special Grants	4,025 39		
		20,275 31	
General Expense:			
Bank Charges	$91 20		
Brokers' Charges	262 61		
Fuel	2,768 50		
Gas and Water	59 01		
General Expense	4,298 74		
Insurance	968 92		
Light and Power	863 33		
Office Expense	667 64		
Postage and Excise	273 24		
Staff Annuity Account	937 35		
Telephone and Telegraph	673 43		
Travelling	250 93		
		12,114 90	
Total Expenditure Other Than Depreciation		$109,458 42	
Depreciation:			
On Alterations, 47 Queen's Park	$1,884 17		
On Apparatus and Instruments	4,681 03		
On Furniture and Fixtures	502 74		
On Library	504 76		
		7,572 70	
Total Expenditure Including Depreciation			117,031 12
Income Surplus			$10,761 14

ONTARIO RESEARCH FOUNDATION

BALANCE SHEET

As At December 31st, 1930

Assets

Cash in Bank and on Hand:			
In Canadian Bank of Commerce:			
Trust Bank Account	$52,617 66		
Operating Bank Account	8,887 67		
		$61,505 33	
Petty Cash		42 73	
TOTAL CASH			$61,548 06
Investments:			
Canadian Trustee Bonds	$1,603,052 27		
Canadian Public Utility Bonds	121,856 47		
Railway Bonds	76,279 97		
Realty Bonds	78,122 08		
Foreign Government Bonds	162,326 15		
Miscellaneous Bonds	21,607 41		
		$2,063,244 35	
Accrued Interest thereon to December 31st, 1930		23,548 74	
TOTAL INVESTMENTS			2,086,793 09
Accounts Receivable:			
Province of Ontario for Disbursements:			
Structural Alterations and Additions	$12,798 58		
Apparatus and Instruments	7,358 21		
Office Furniture and Fixtures	833 69		
Library	7,845 34		
		$28,835 82	
Sundry Accounts Receivable		10,124 11	
Duty Recoverable		147 34	
Advances		20 00	
TOTAL ACCOUNTS RECEIVABLE			39,127 27
Stores and Containers			3,840 72
			$2,191,309 14

Liabilities, Reserves and Surplus

Accounts Payable			$1,505 77
Reserves for Replacement of Fixed Assets:			
Structural Alterations and Additions		$3,957 32	
Apparatus and Instruments		5,349 43	
Office Furniture and Fixtures		912 12	
Library		803 36	
			11,022 23
Total Subscriptions		$3,745,520 00	
Less Subscriptions Unpaid:			
Not Due	$1,546,950 00		
Overdue	30,550 00		
		1,577,500 00	
Subscriptions Paid			2,168,020 00
Income Surplus			10,761 14
			$2,191,309 14

I have audited the books and accounts of Ontario Research Foundation for the year ended December 31st, 1930, and have received all the information and explanations that I have required. I hereby certify that the above Balance Sheet is, in my opinion, a true and correct view of the affairs of Ontario Research Foundation at that date according to the information and explanations given me and as shown by the books of account.

ELLIOTT ALLEN, C.A.,
Of Allen and Miles, *Chartered Accountants.*

January 26th, 1931.

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Vol.63, pt.5 (1931)

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